

FIG. 1

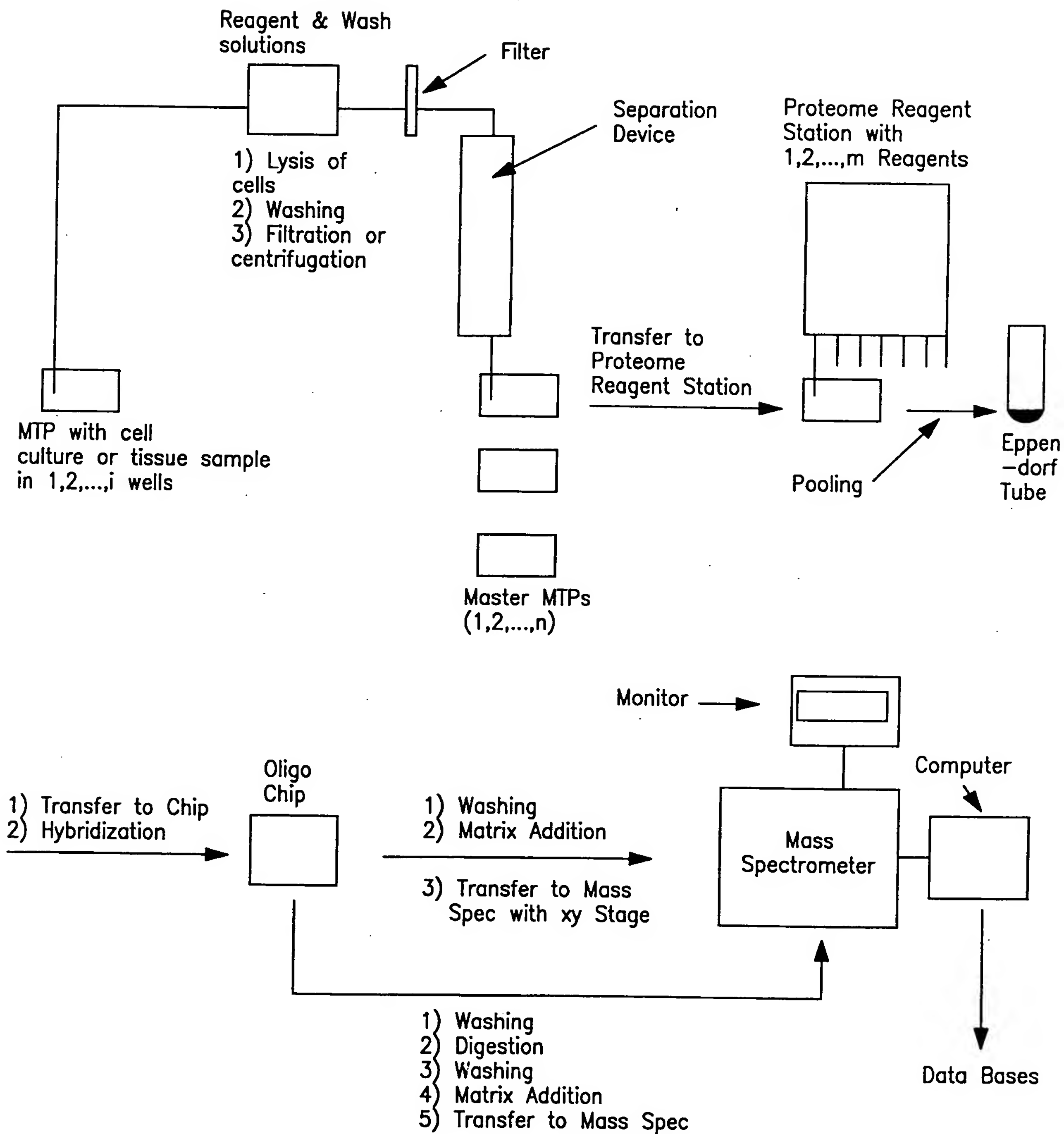


FIG. 2

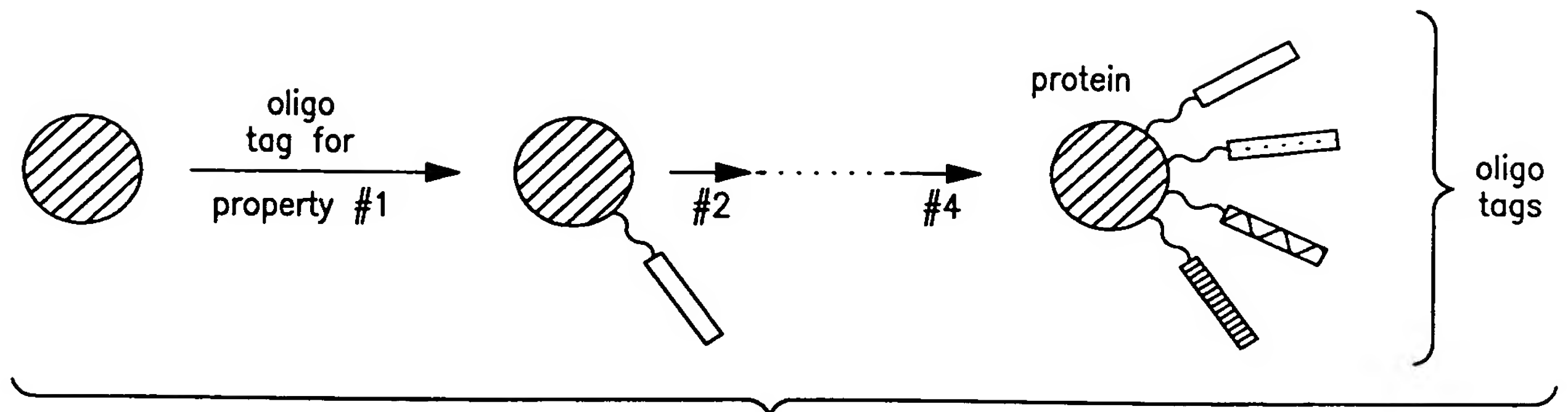


FIG. 3

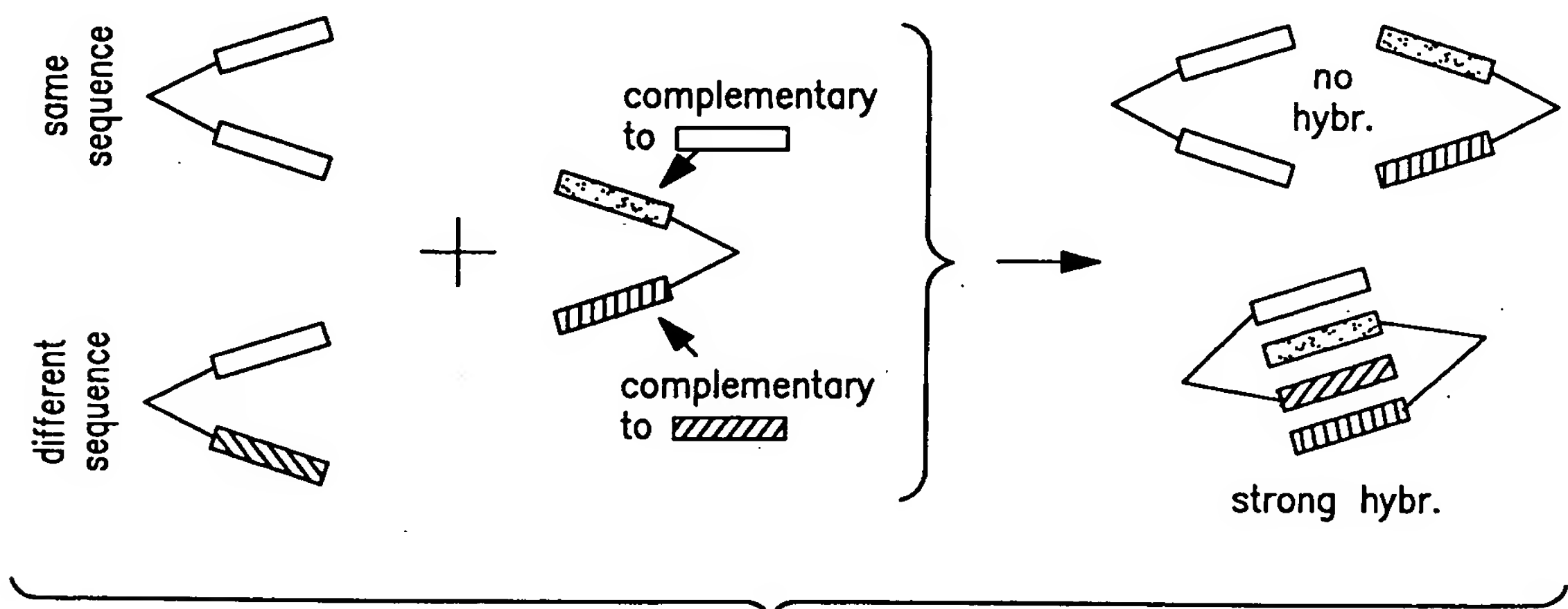


FIG. 4

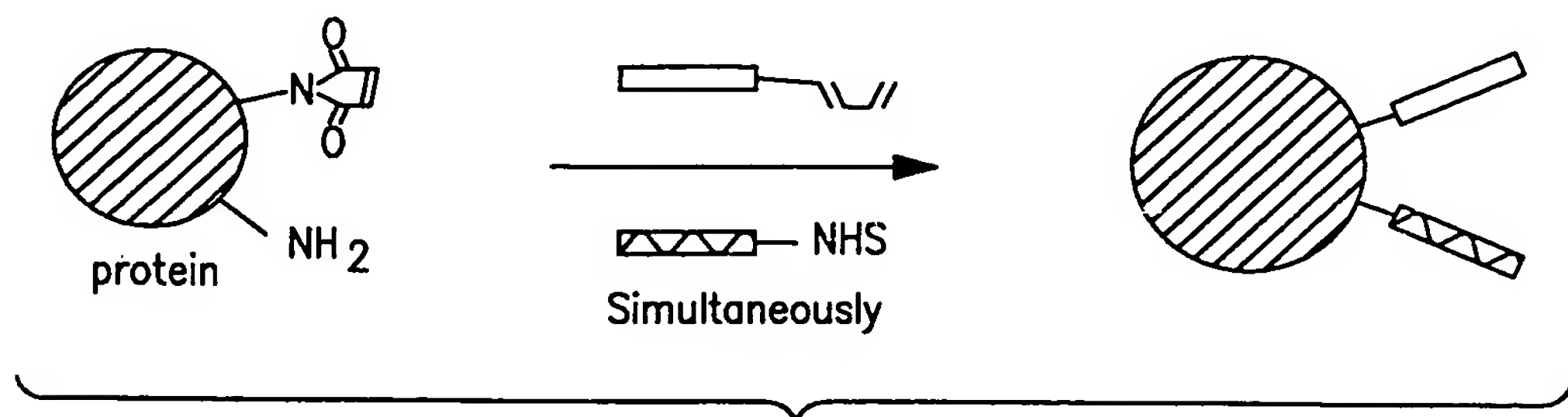


FIG. 5

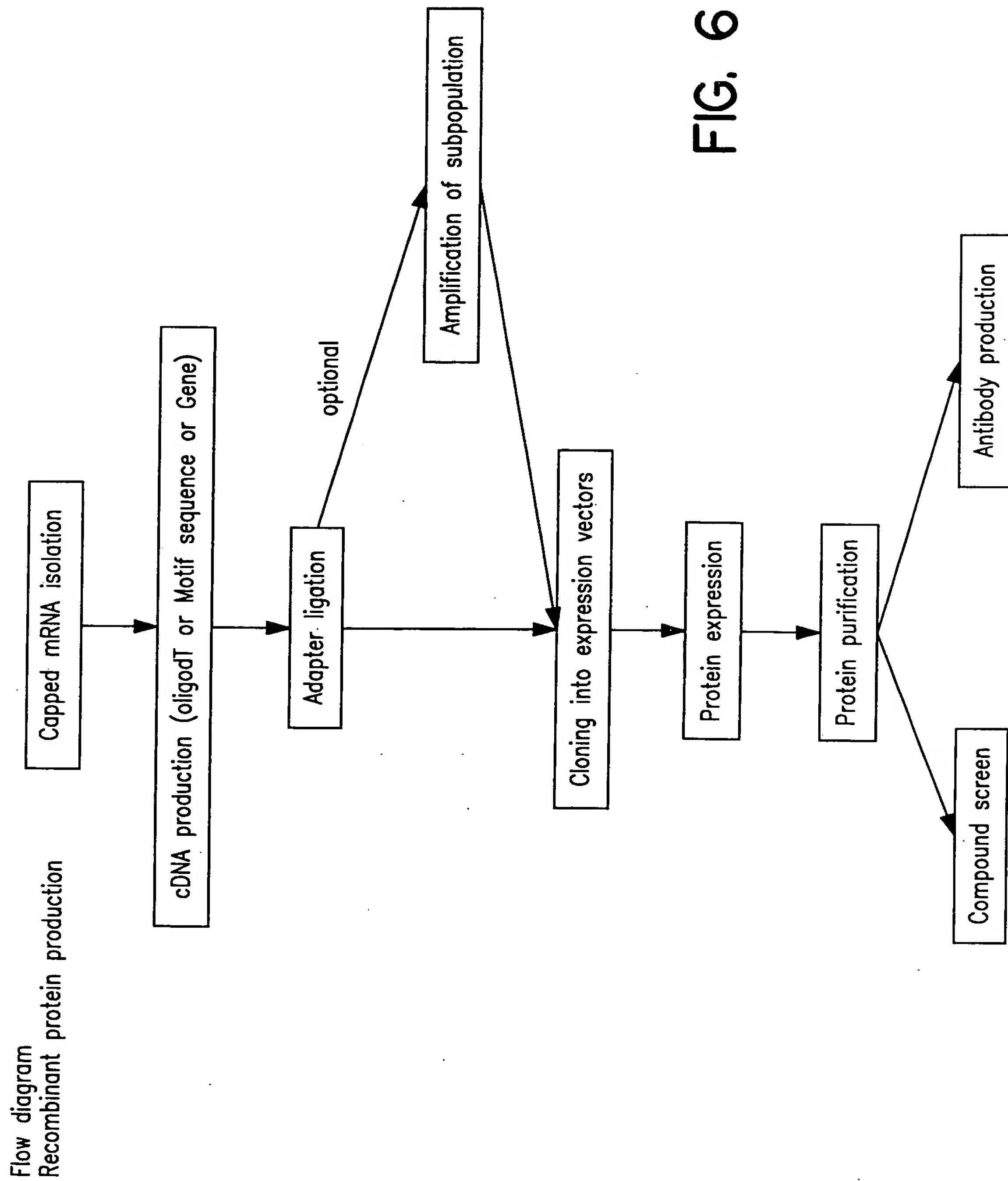


FIG. 6

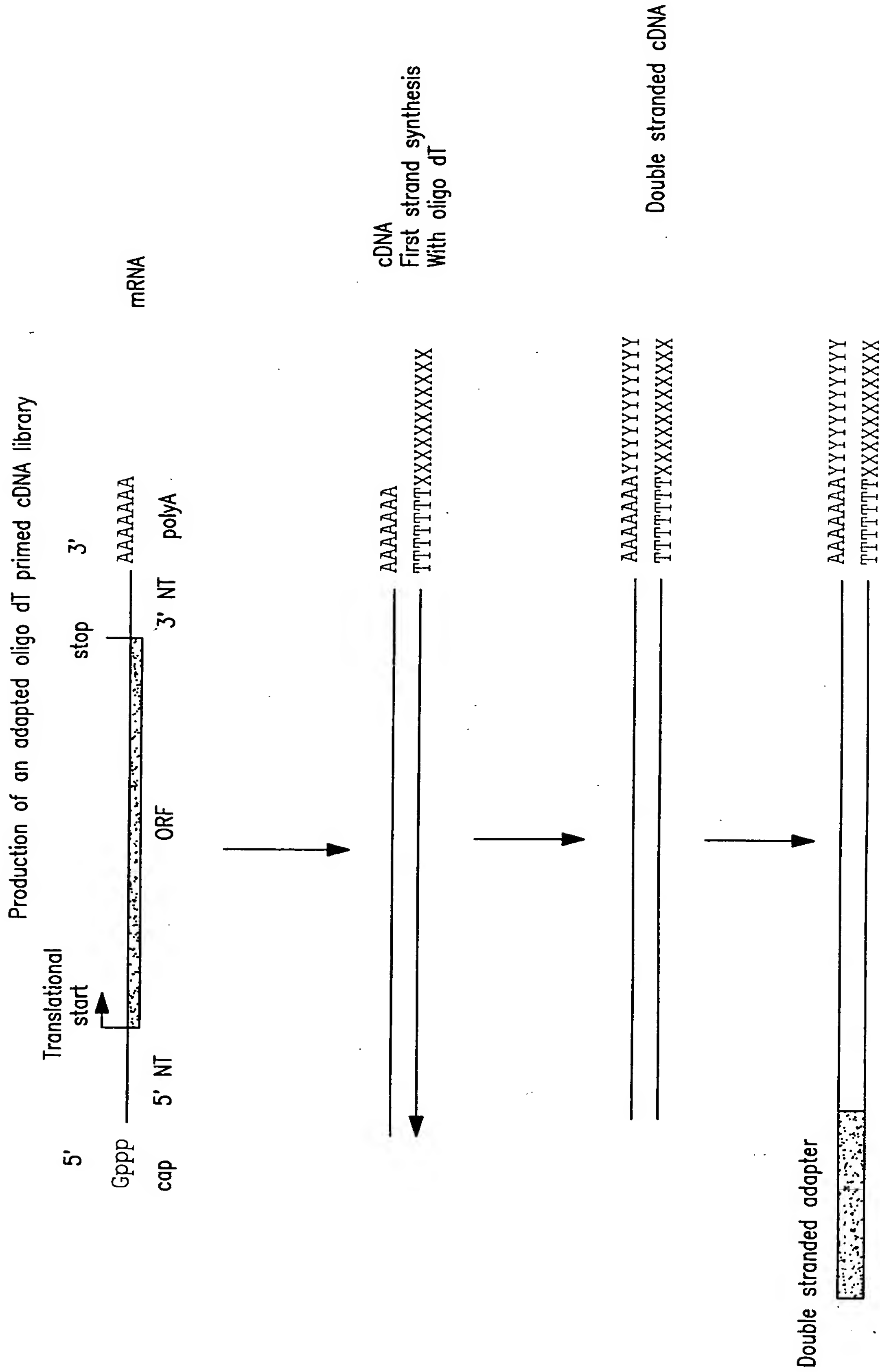


FIG. 7

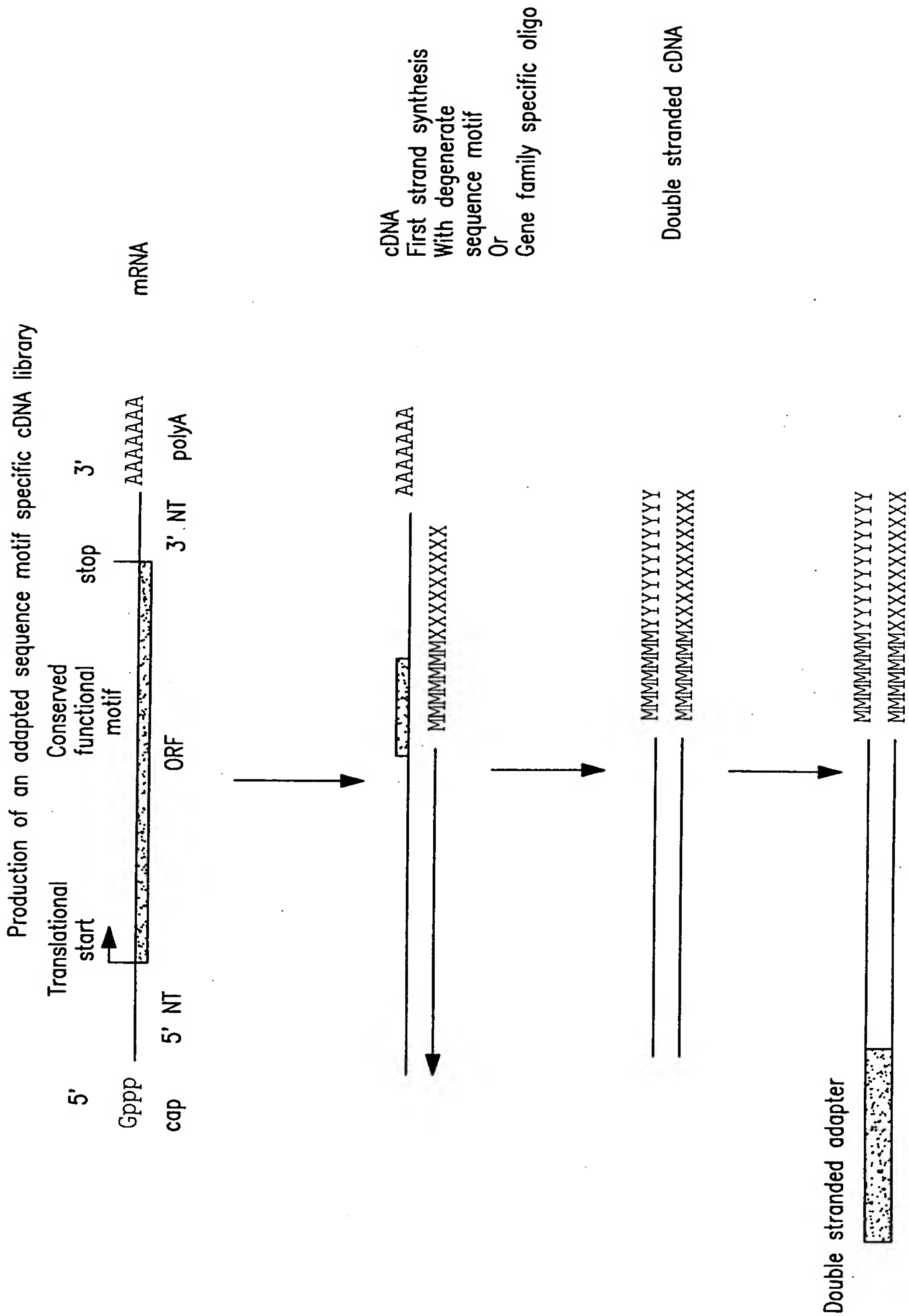


FIG. 8

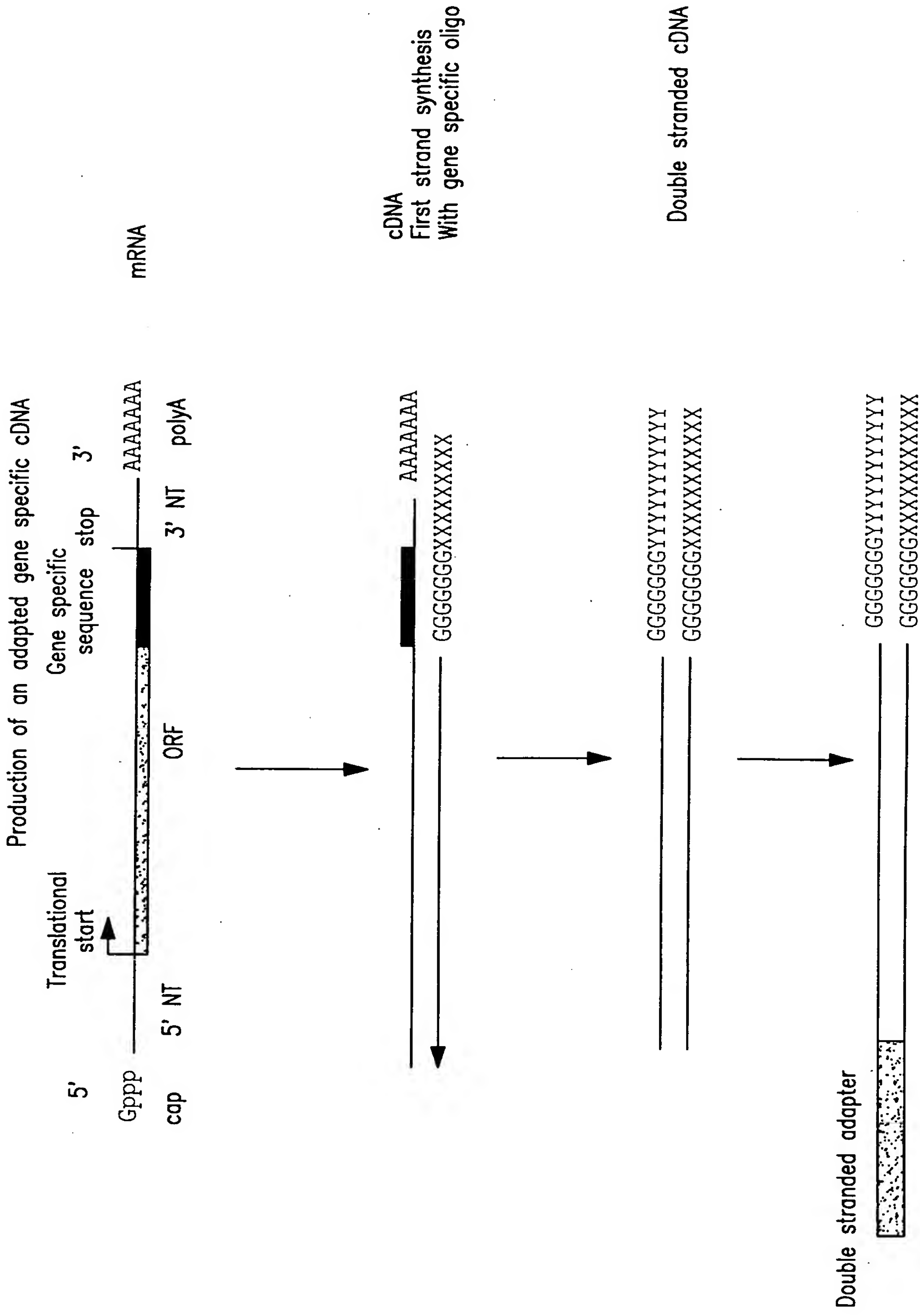


FIG. 9

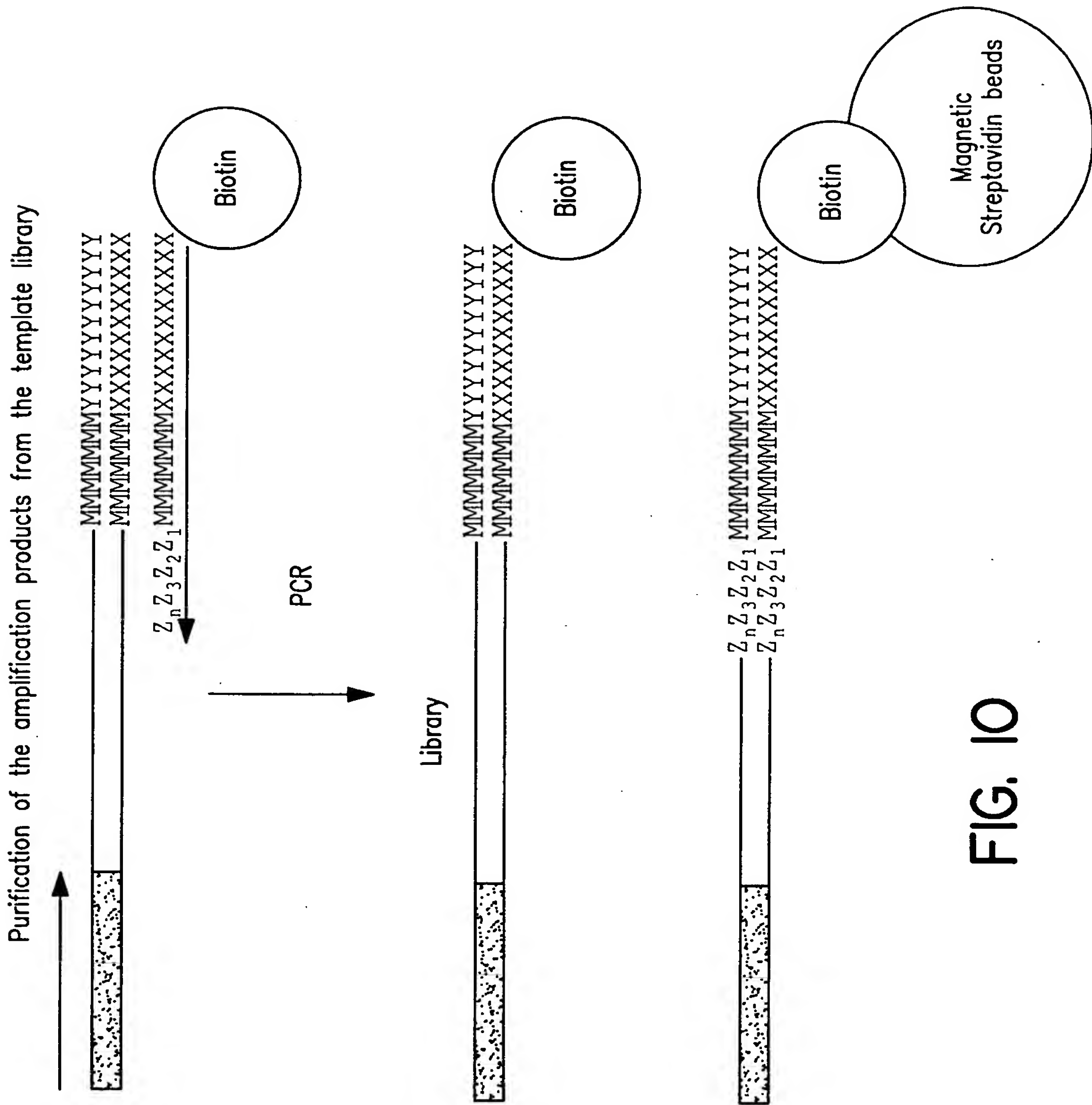


FIG. 10

FIG. 11

Title: CAPTURE COMPOUNDS, COLLECTIONS THEREOF AND METHODS FOR ANALYZING THE PROTEOME AND COMPLEX COMPOSITIONS

Applicants: Köster *et al.* Customer No.: 24961

Serial No.: Herewith Filed: January 16, 2004

Our Docket No.: 24743-2309

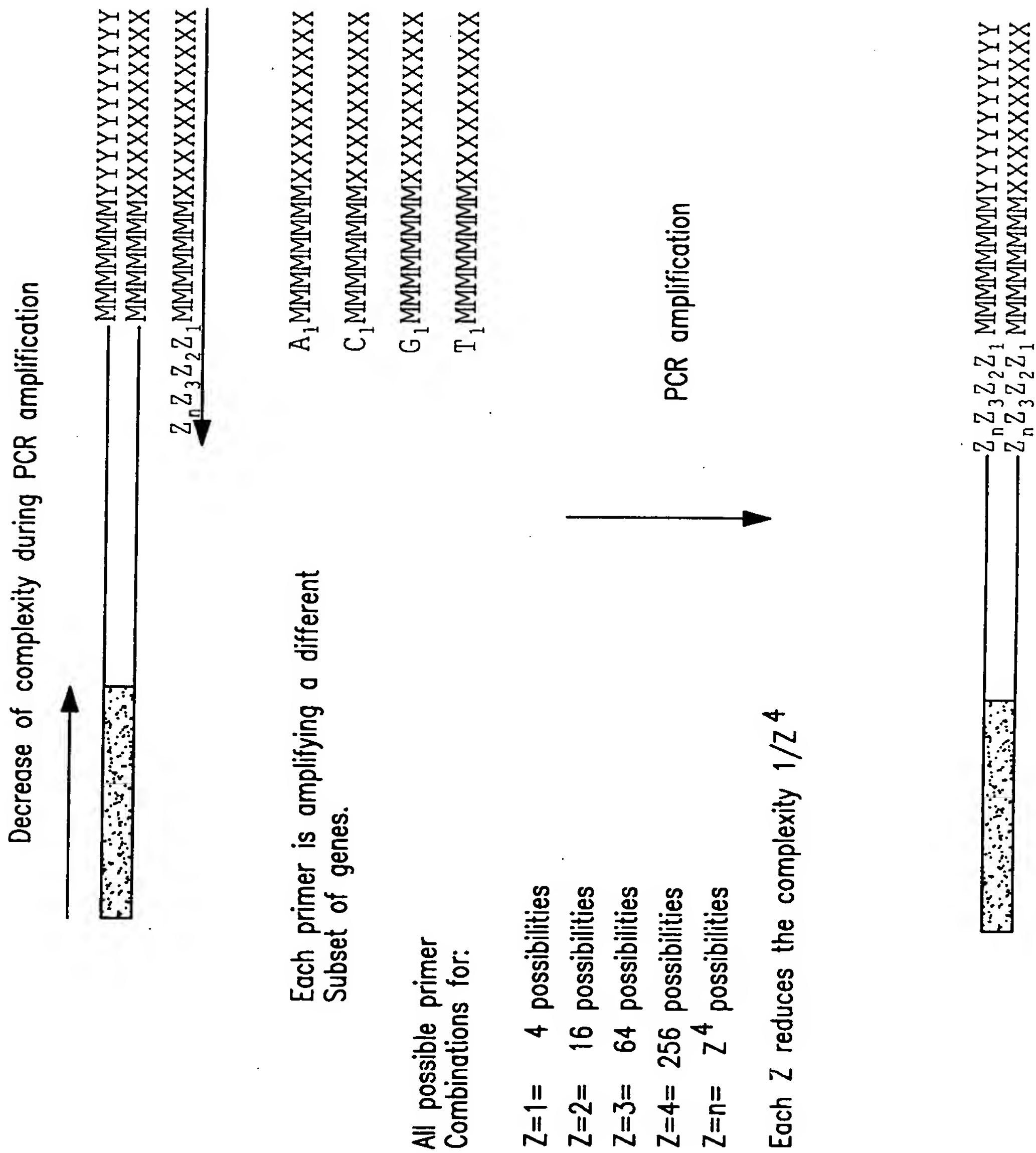
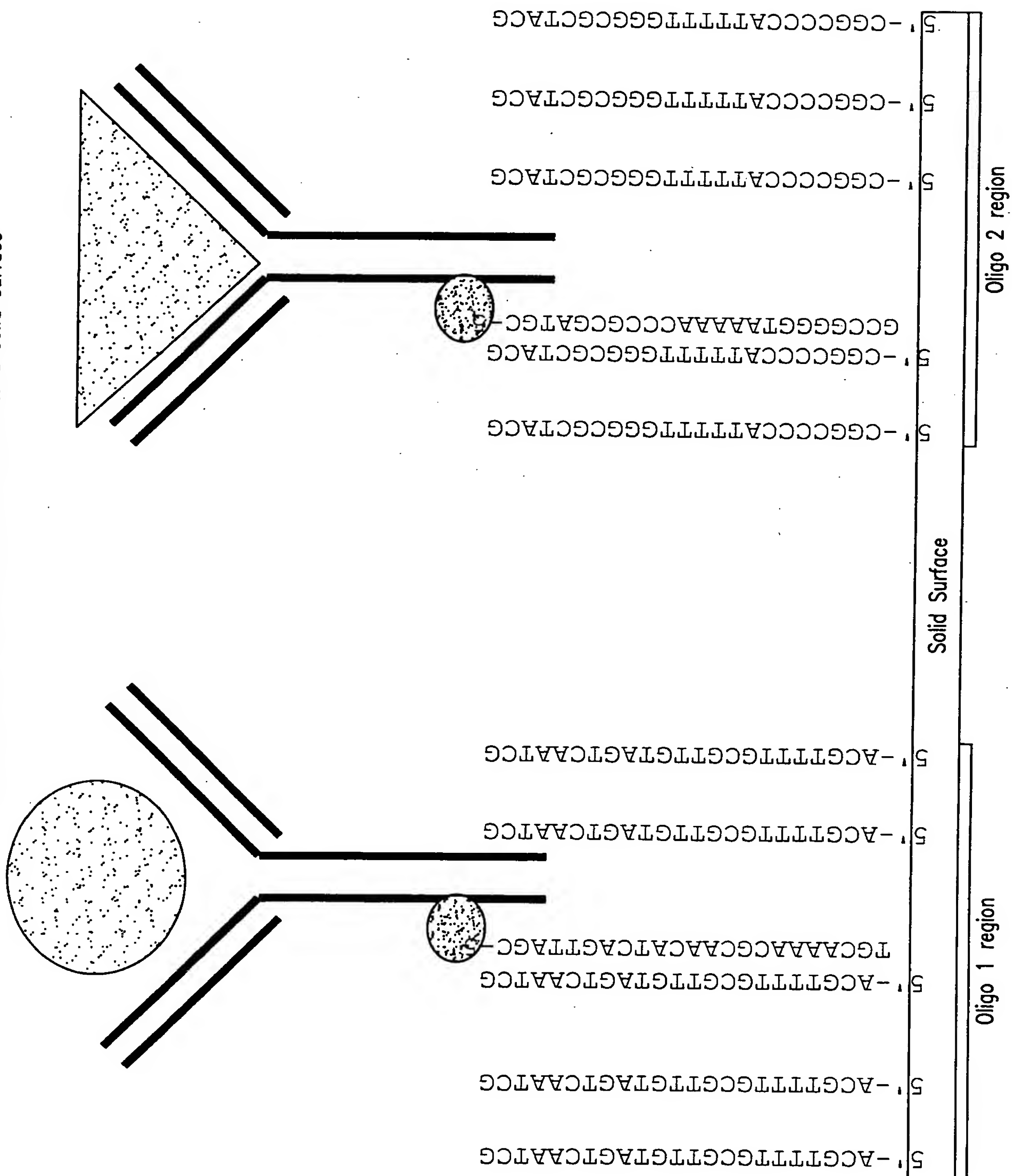


FIG. 12

Attachment of the bi-functional molecule to a solid surface



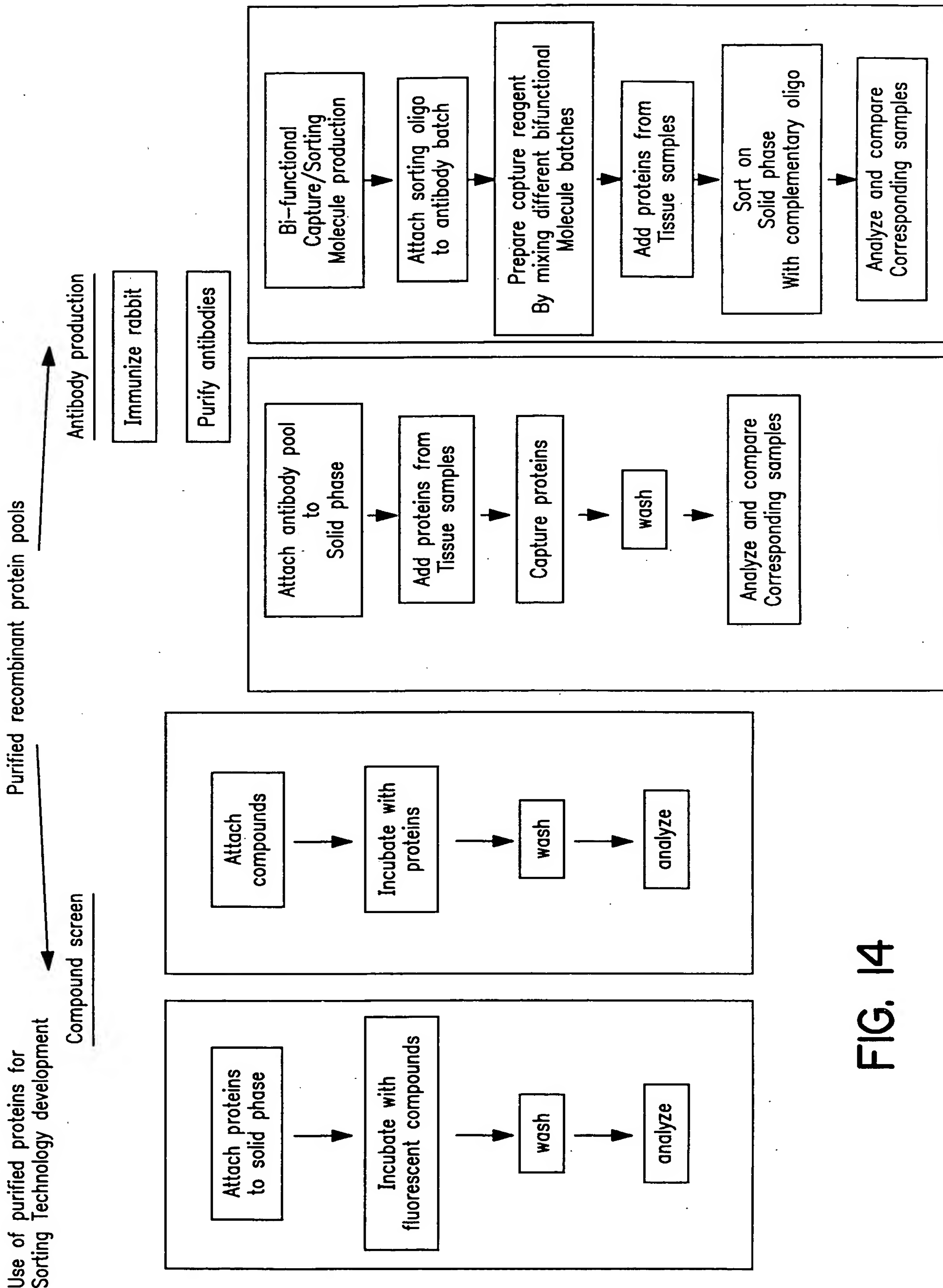


FIG. 14

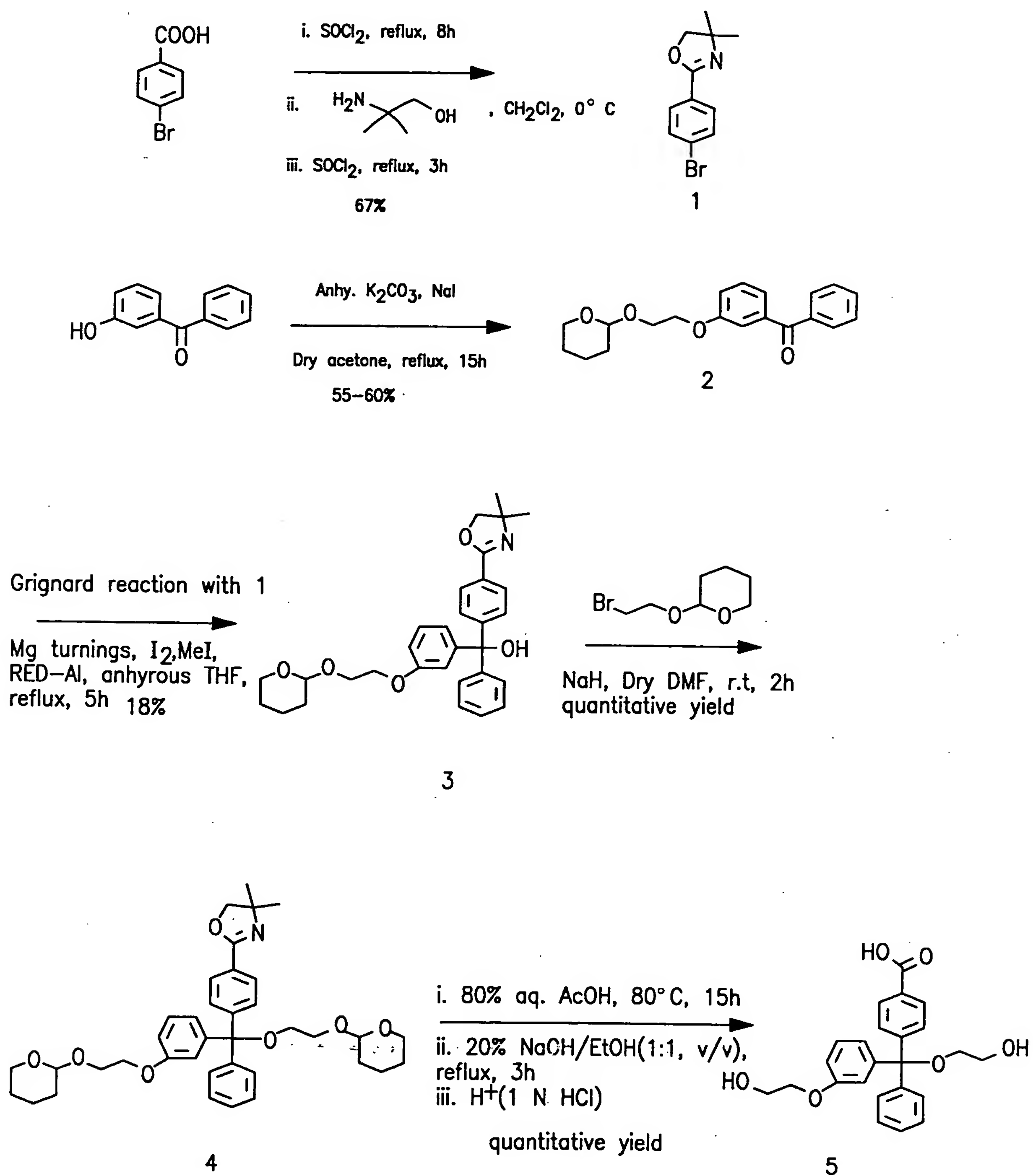


FIG. 15a

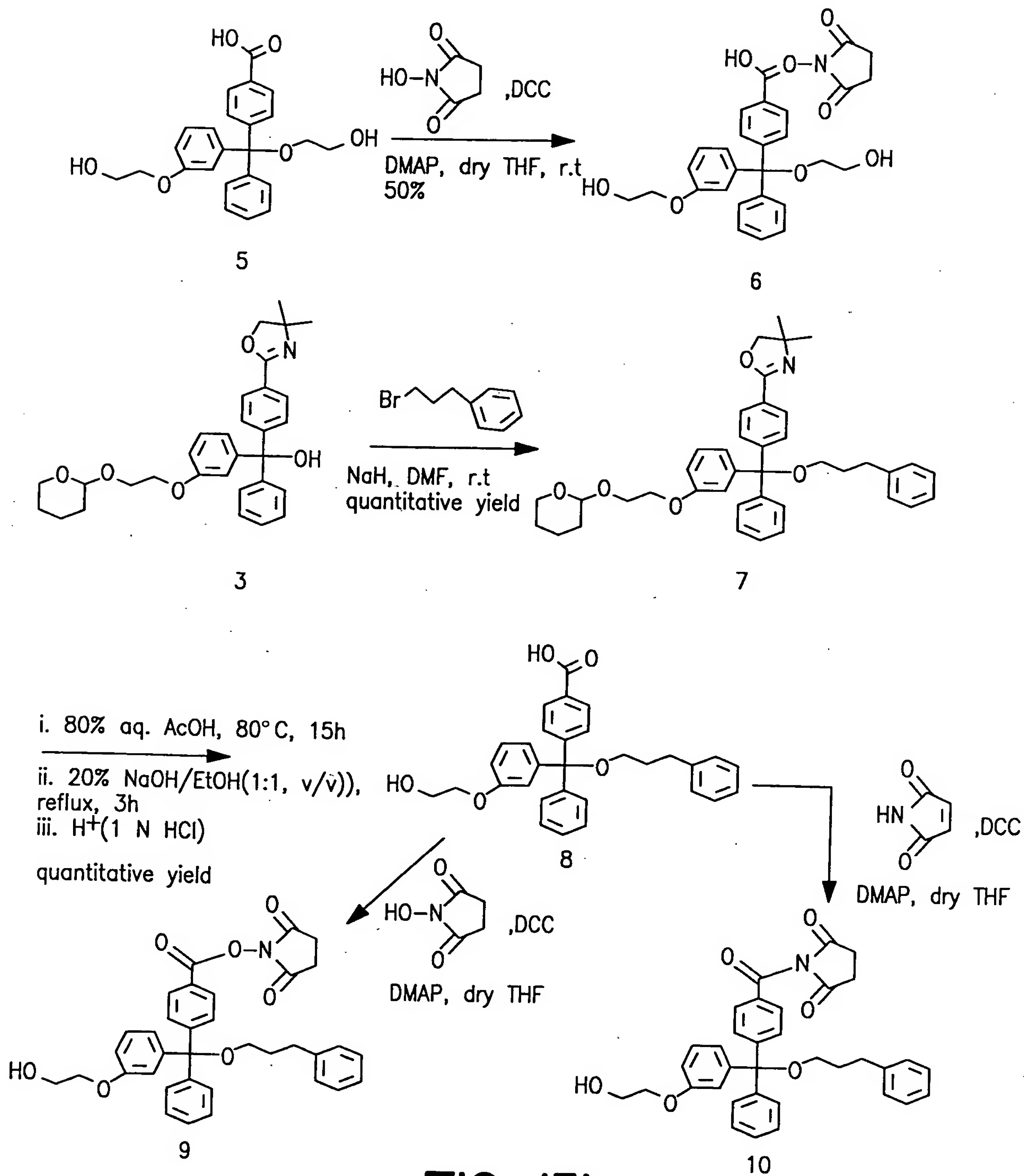


FIG. 15b

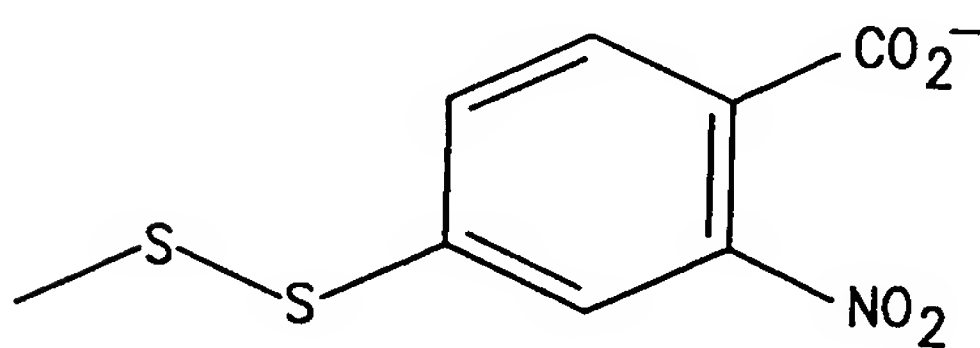
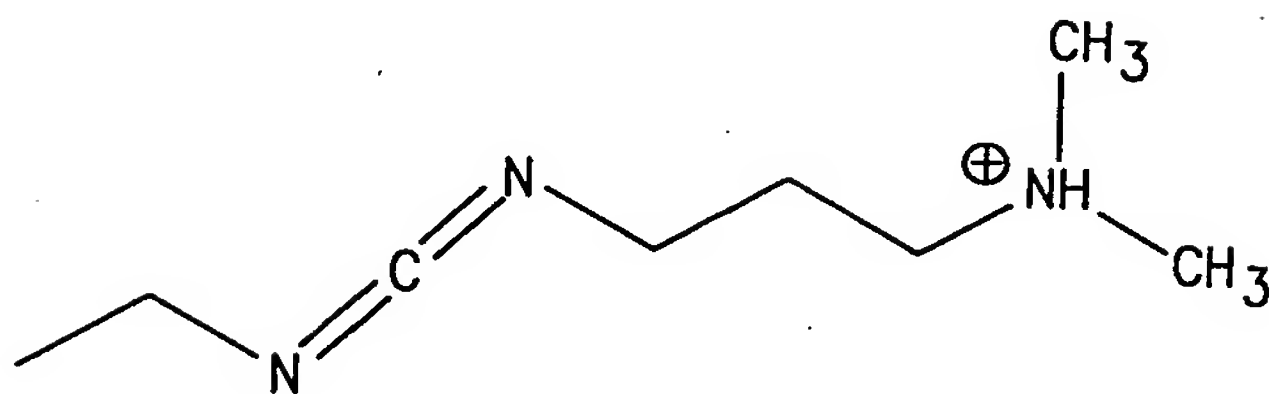
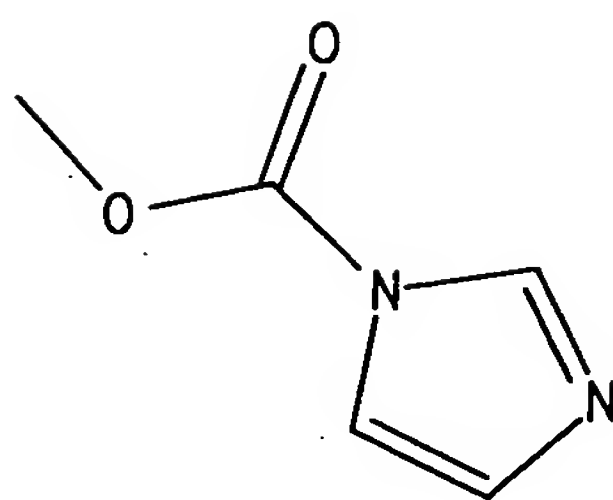
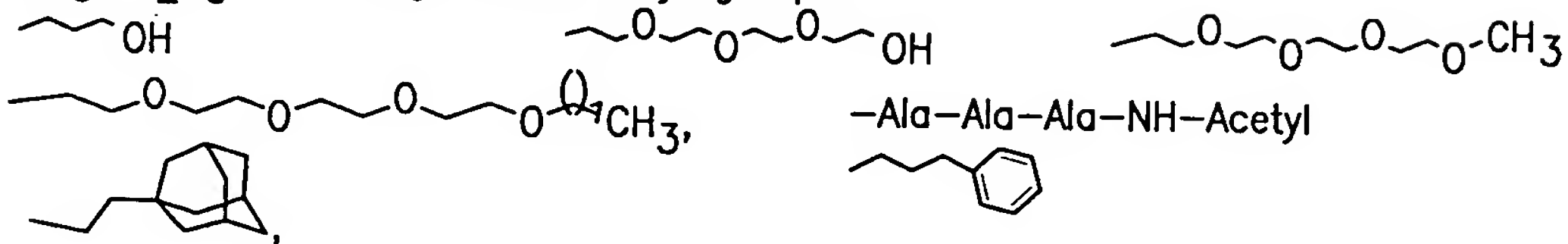
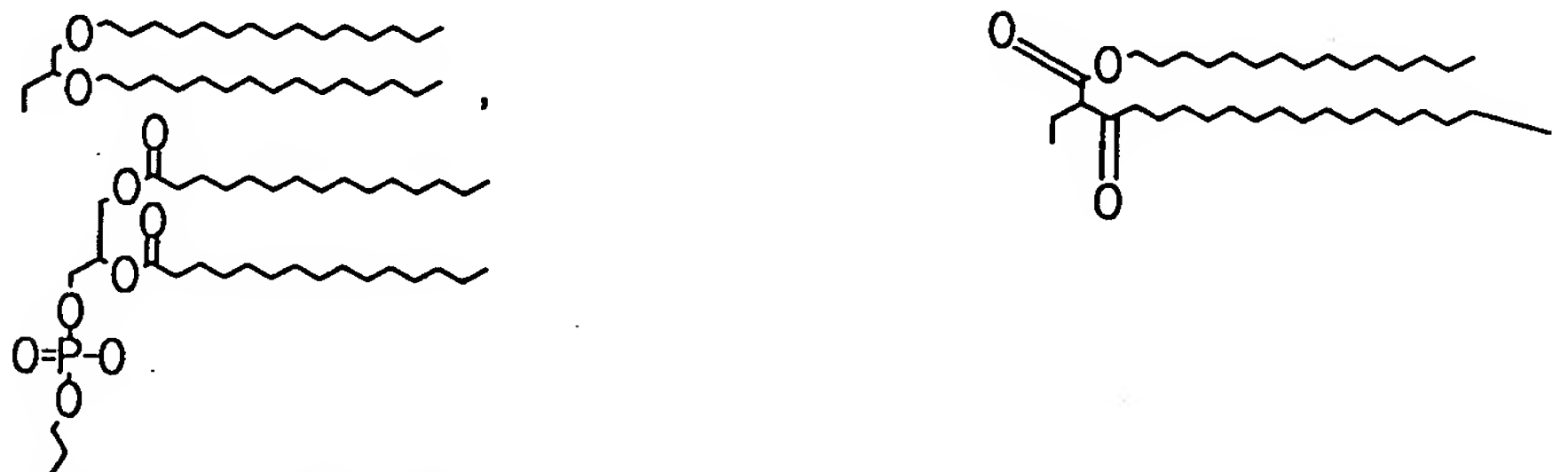


FIG. 16b

SMALL MOLECULESCH₃, C₂H₅, and longer chain alkyl groupsNATURAL PRODUCTS

Cholesterol, Steroids, alkaloids, flavonoids, prostaglandin, peptides, EGF, rapamycin

PROTEIN AGONISTS AND ANTAGONISTS

1,1,1-Trifluoro-6Z,9Z,12Z,15Z-heneicosatetraen-2-one,

trans-4-[3-Methyl-6-(1-methylethenyl)-2-cyclohexen-1-yl]-5-pentyl-1,3-benzenediol,

Arachidonyl-2'-chloroethylamide/
(all Z)-N-(2-cycloethyl)-5,8,11,14-eicosatetraenamide,

Arachidonylcyclopropylamide/(all Z)-N-(cyclopropyl)-5,8,11,14-eicosatetraenamide,

N-(Piperidin-1-yl)-5-(4-iodophenyl)-1-(2,4-dichlorophenyl)-4-methyl-1H-pyrazole-3-carboxamide,

1-(2,4-Dichlorophenyl)-5-(4-iodophenyl)-4-methyl-N-4-morpholinyl-1H-pyrazole-3-carboxamide,

(all Z)-N-(4-Hydroxyphenyl)-5,8,11,14-eicosatetraenamide,

6-Iodo-2-methyl-1-[2-(4-morpholinyl)ethyl]-1H-indol-3-yl(4-methoxyphenyl) methanone,

Arachidonylethanolamide/(all Z)-N-(2-Hydroxyethyl)-5,8,11,14-eicosatetraenamide,

FIG. 17a

Arachidonylethanolamide/(all Z)-N-(2-Hydroxyethyl)-5,8,11,14-
eicosatetraenamide,

N-(2-Hydroxyethyl)-[5,6,8,9,11,12,14,15-H]-5Z,8Z,11Z,14Z-eicosatetraenamide,

2-AG/(5Z,8Z,11Z,14Z)-5,8,11,14-Eicosatetraenoic acid, 2-hydroxy-1-
(hydroxymethyl)ethyl ester,

(-)-cis-3-[2-Hydroxy-4-(1,1-dimethylheptyl)phenyl]-trans-4-(3-
hydroxypropyl)cyclohexanol,

Docosatetraenylethanolamide/N-(2-Hydroxyethyl)-7Z,10Z,13Z,16Z-
docosatetraenamide,

(6aR)-trans-3-(1,1-Dimethylheptyl)-6a,7,10,10a-tetrahydro-1-hydroxy-6,6-
dimethyl-6H-dibenzo[b,d]pyran-9-methanol,

[6aR-(6a α ,9 α ,10a β)]-3-(1,1-Dimethylheptyl)-6a,7,8,9,10,10a-hexahydro-1-
hydroxy-6,6-dimethyl-6H-dibenzo[b,d]pyran-[7,8-H]-9-methanol,

(2-Methyl-1-propyl-1H-indol-3-yl)-1-naphthalenylmethanone,

(6aR,10aR)-3-(1,1-dimethylbutyl)-6a,7,10,10a-tetrahydro-6,6,9-trimethyl-6H-
dibenzo[b,d]pyran,

Methyl arachidonyl fluorophosphonate/(5Z,8Z,11Z,14Z)-5,8,11,14-
eicosatetraenyl-methyl ester phosphonofluoridic acid,

[R-(all-Z)]-N-(2-Hydroxy-1-methylethyl)-5,8,11,14-eicosatetraenamide, 2-
[(5Z,8Z,11Z,14Z)-Eicosatetraenyloxy]-1,3-propanediol,

N-(bis-3-chloro-4-hydroxybenzyl)-5Z,8Z,11Z,14Z-eicosatetraenamide,

(9Z)-N-(2-Hydroxyethyl)-9-octadecenamide,

N-(2-Hydroxyethyl)hexadecanamide,

(5Z,8Z,11Z,14Z)-N-(4-Hydroxy-2-methylphenyl)-5,8,11,14-eicosatetraenamide,

(R)-(+)-[2,3-Dihydro-5-methyl-3-(4-morpholinylmethyl)pyrrolo[1,2,3-de]-1,4-
benzoxazin-6-yl]-1-naphthalenylmethanone

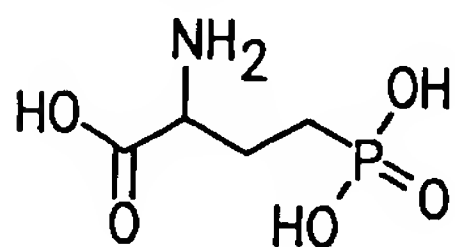


FIG. 17b

Title: CAPTURE COMPOUNDS, COLLECTIONS THEREOF AND METHODS FOR ANALYZING THE PROTEOME AND COMPLEX COMPOSITIONS

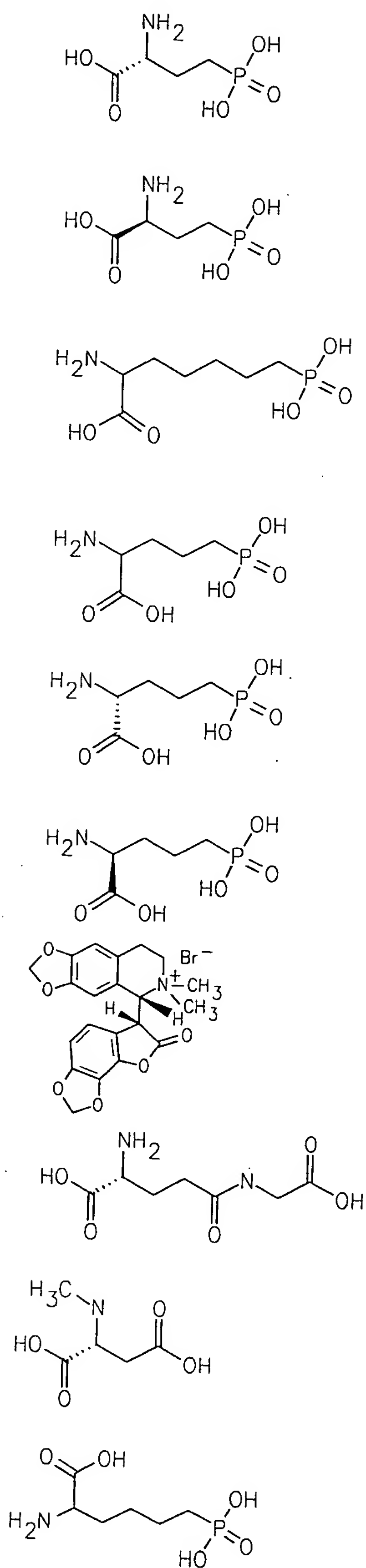
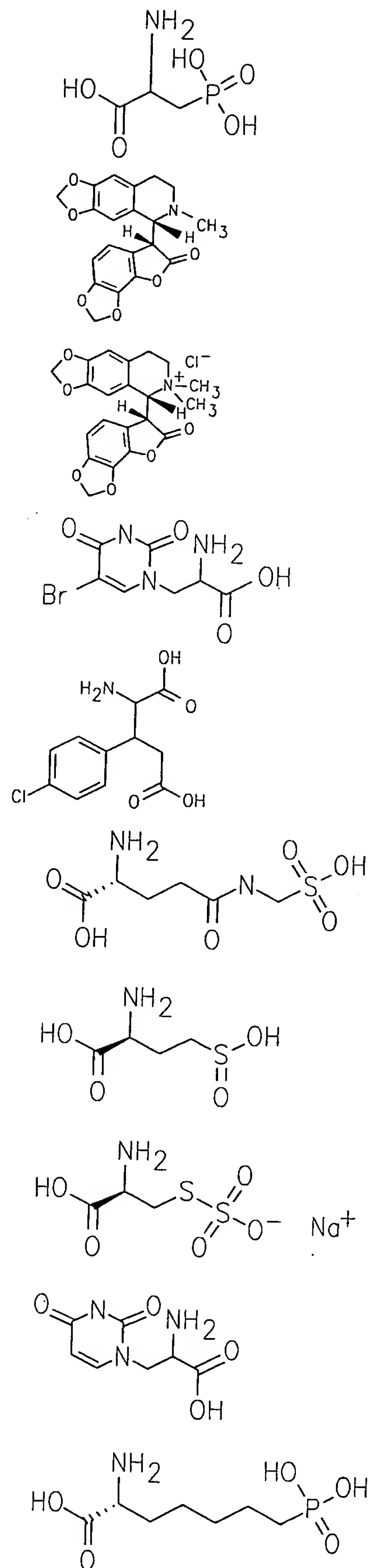
Applicants: Köster *et al.* Customer No.: 24961
Serial No.: Herewith Filed: January 16, 2004
Our Docket No.: 24743-2309

FIG. 17c



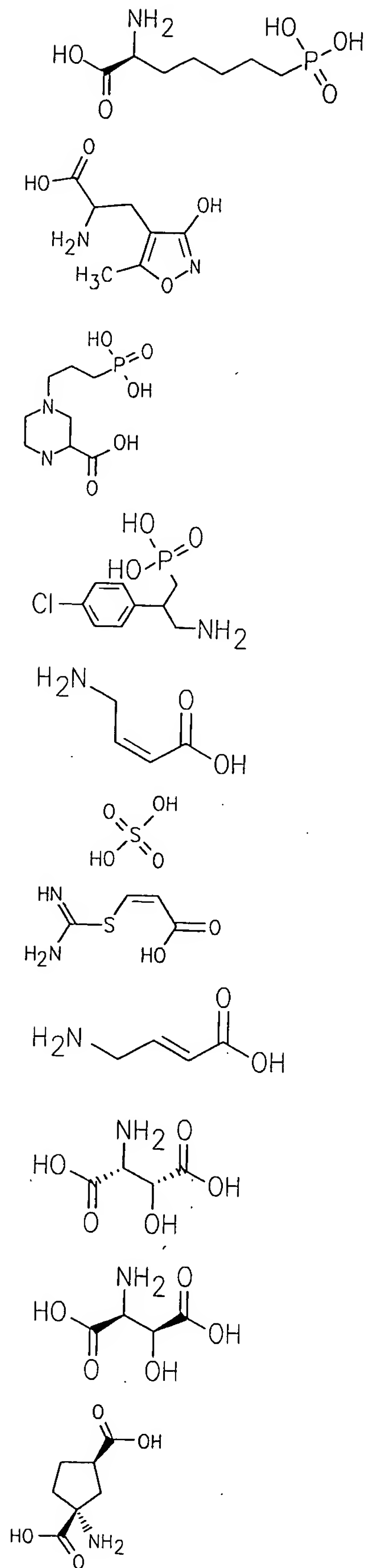


FIG. 17e

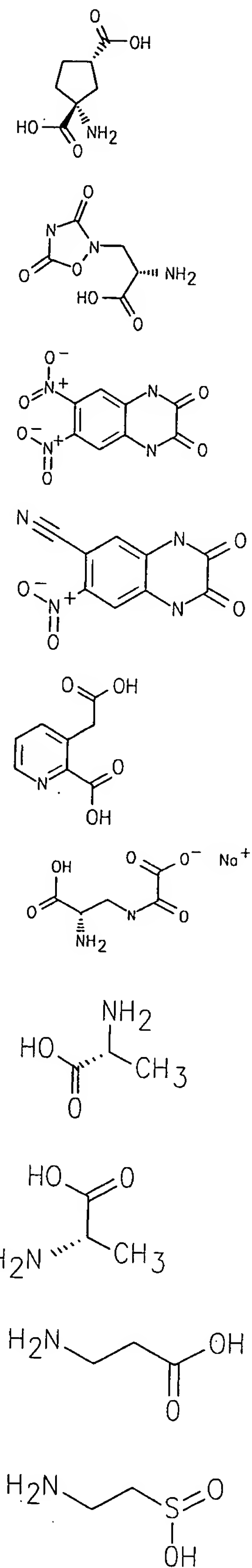


FIG. 17f

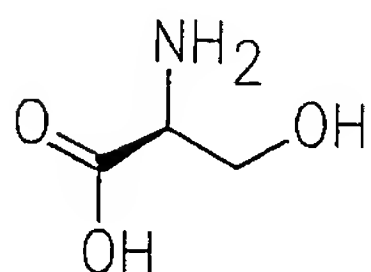
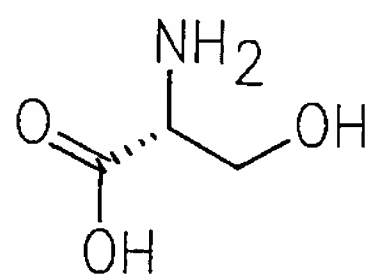
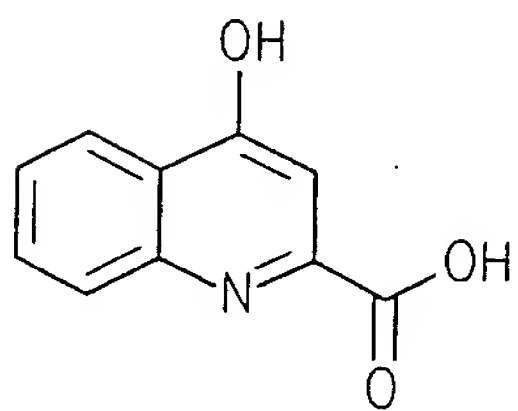
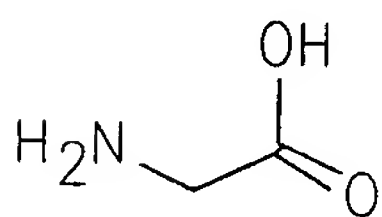
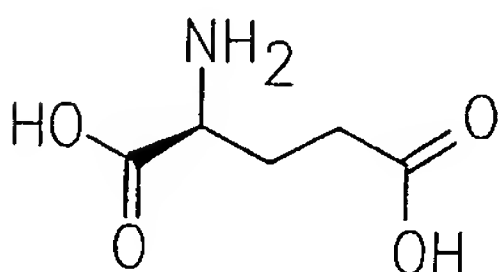
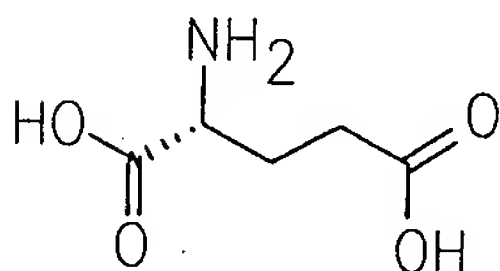
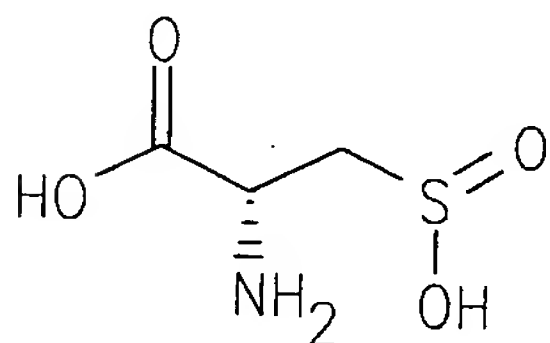
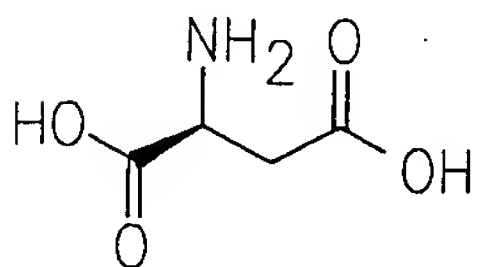
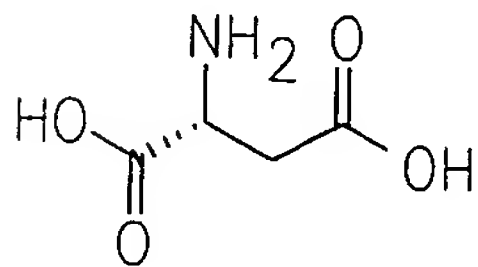
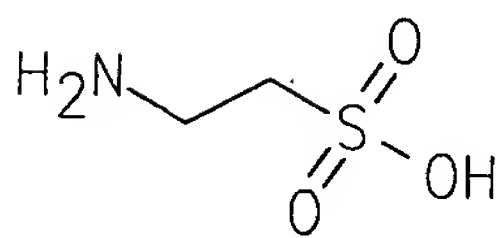


FIG. 17g

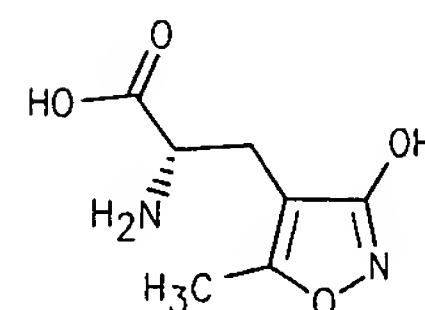
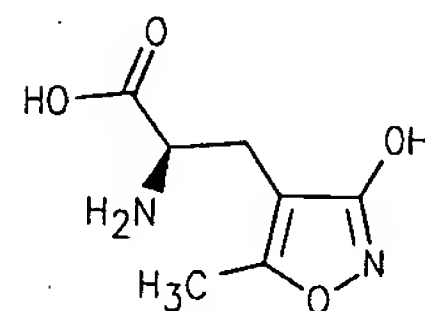
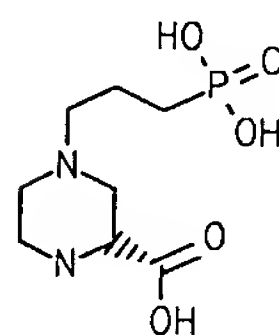
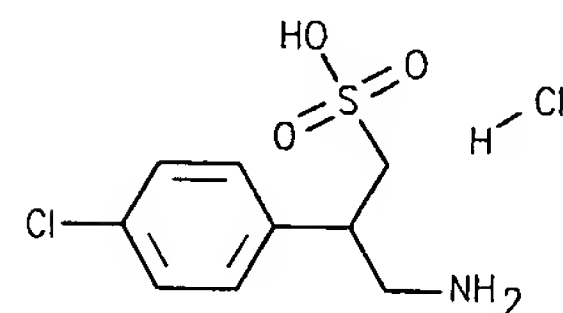
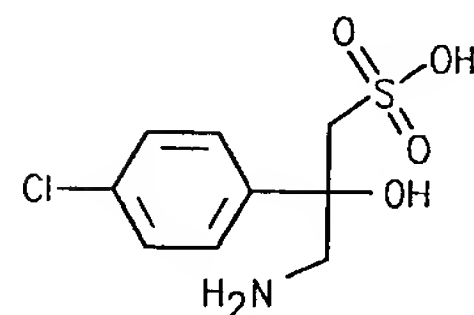
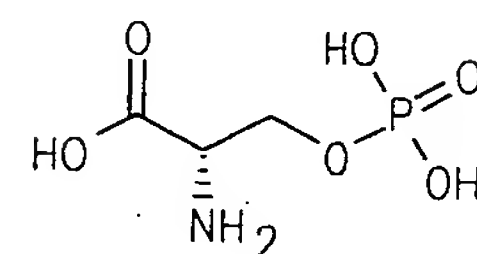
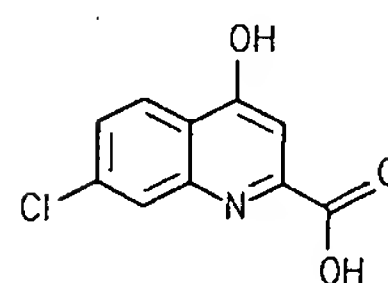
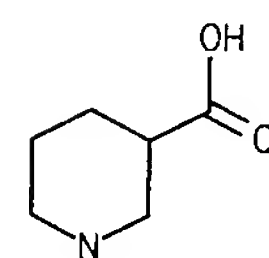
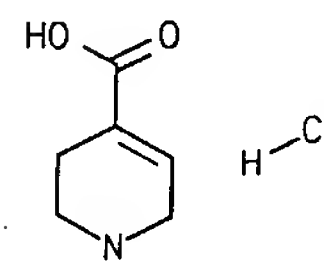
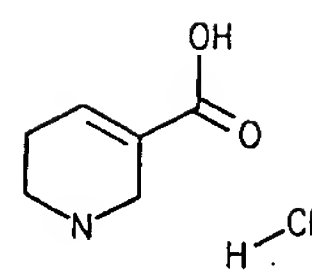


FIG. 17h

Title: CAPTURE COMPOUNDS, COLLECTIONS THEREOF AND METHODS FOR ANALYZING THE PROTEOME AND COMPLEX COMPOSITIONS

Applicants: Köster *et al.* Customer No.: 24961
Serial No.: Herewith Filed: January 16, 2004
Our Docket No.: 24743-2309

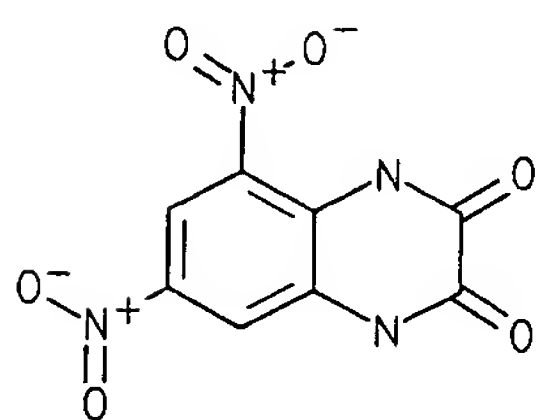
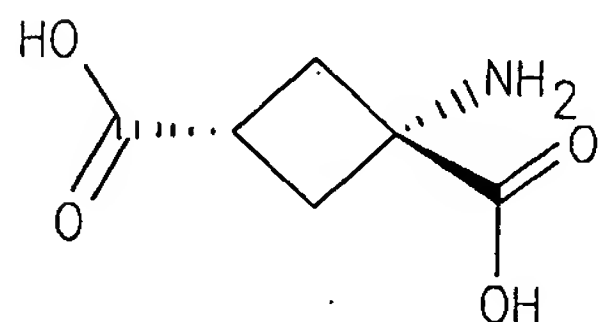
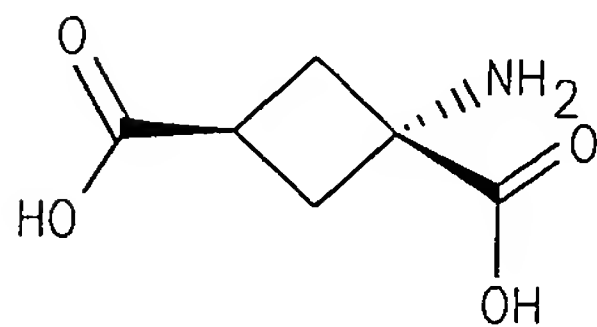
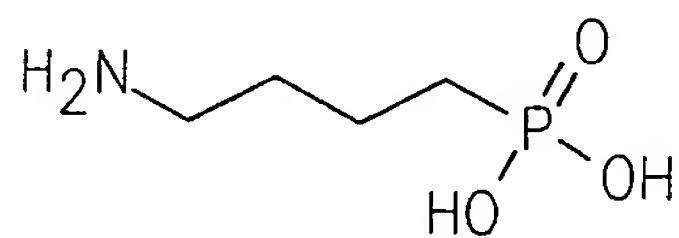
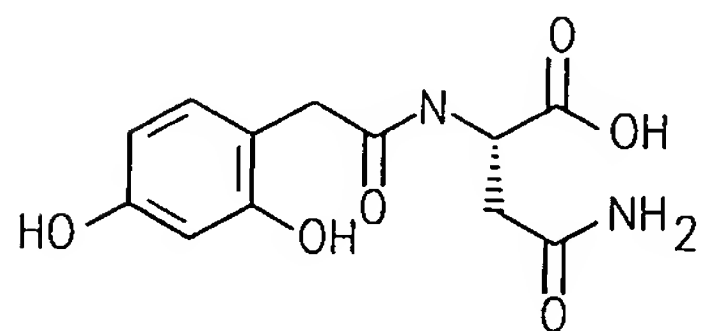
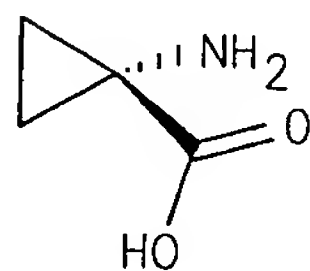
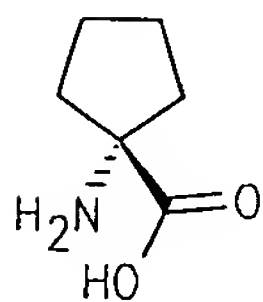
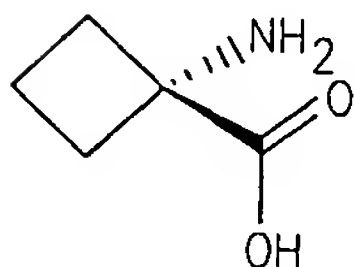
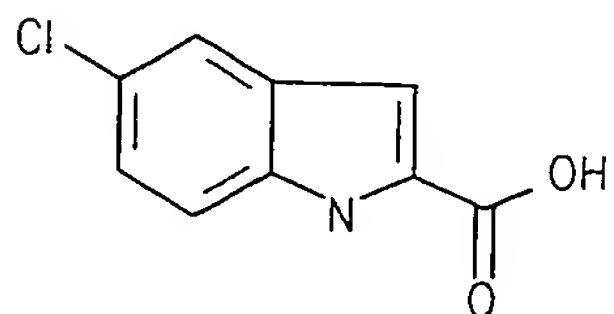
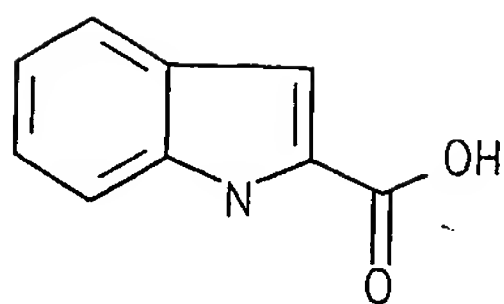


FIG. 17i

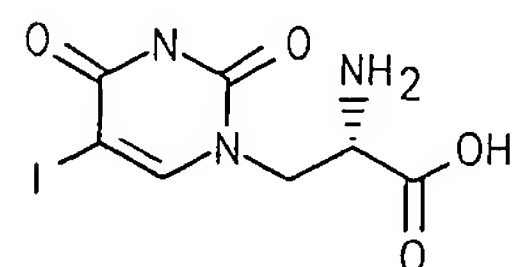
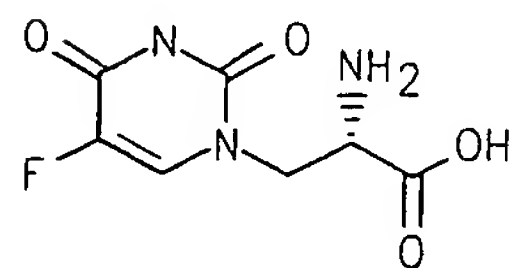
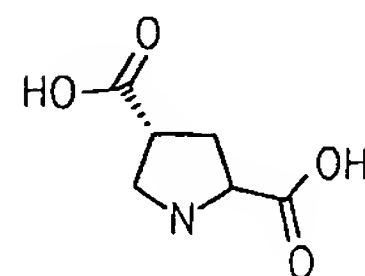
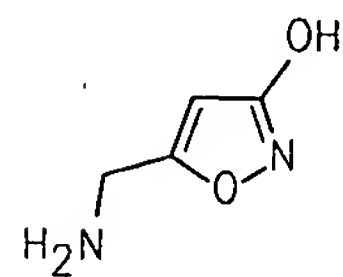
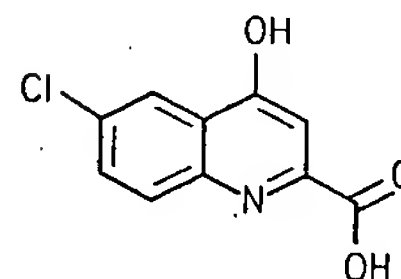
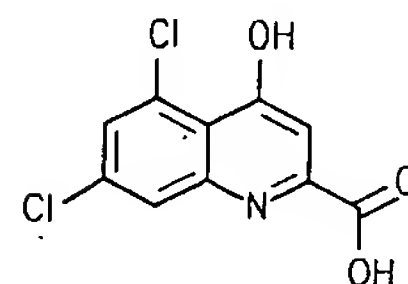
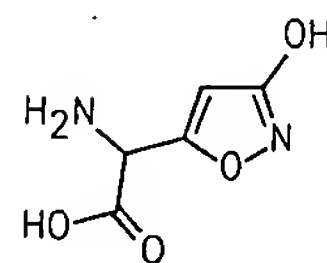
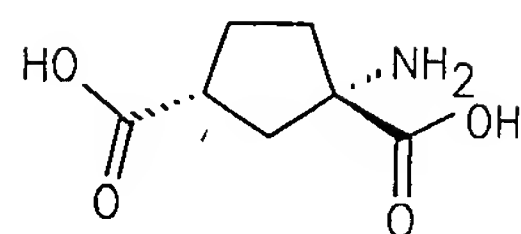
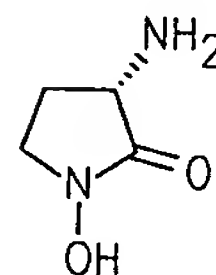
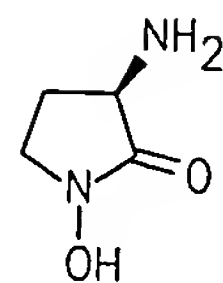


FIG. 17j

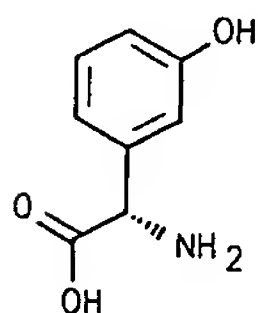
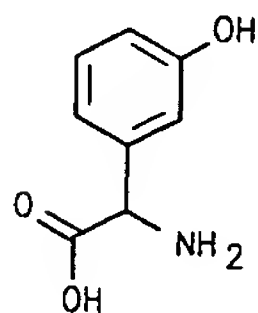
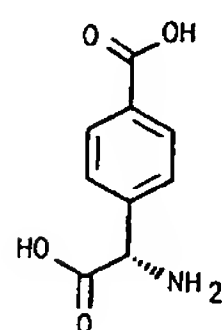
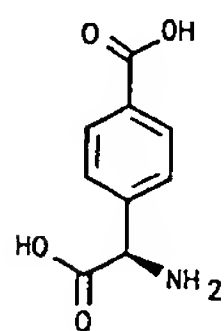
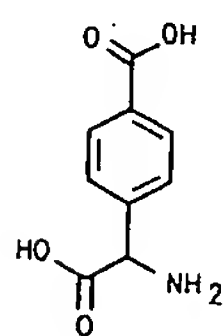
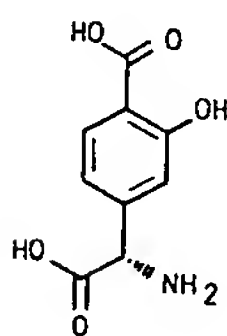
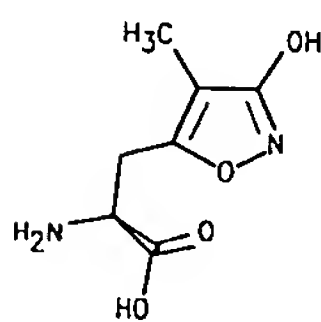
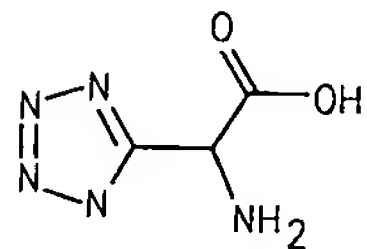
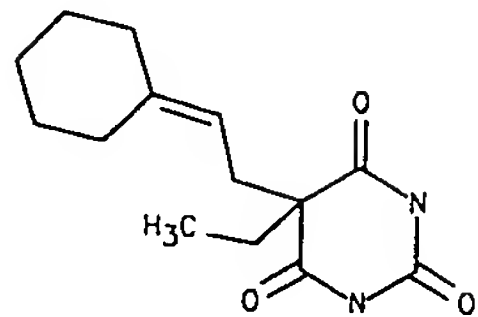
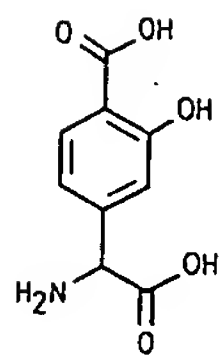


FIG. 17k

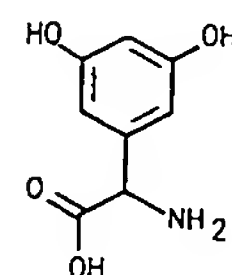
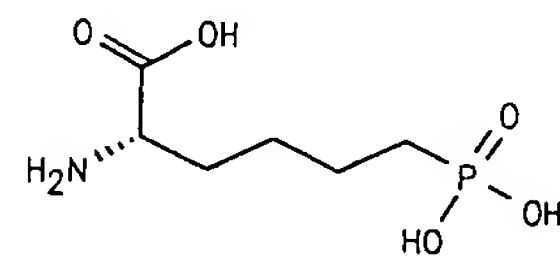
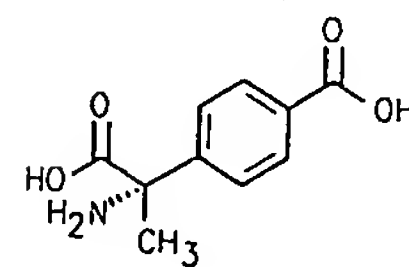
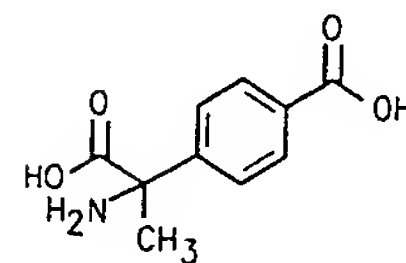
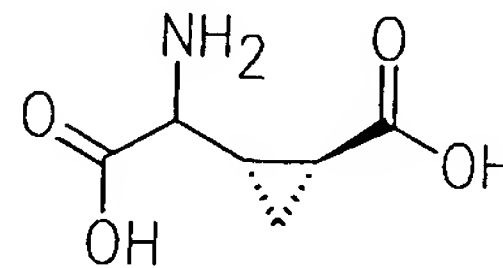
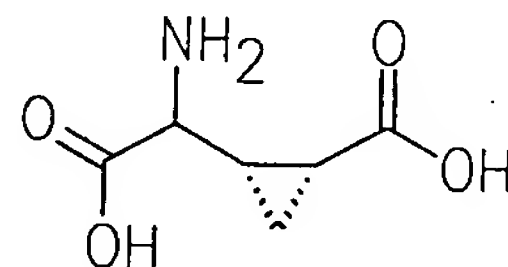
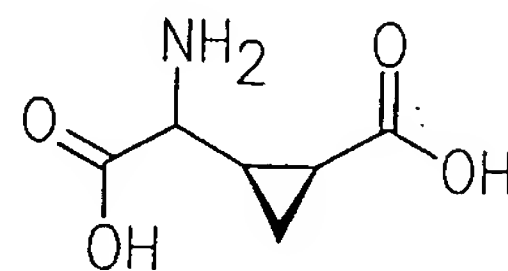
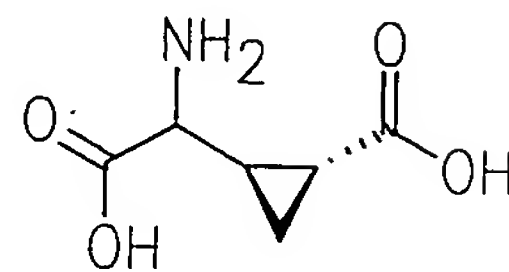
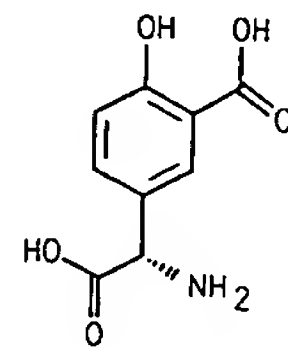
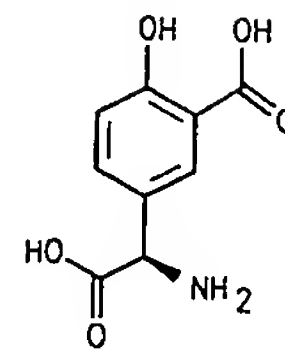


FIG. 17l

Title: CAPTURE COMPOUNDS, COLLECTIONS THEREOF AND METHODS FOR ANALYZING THE PROTEOME AND COMPLEX COMPOSITIONS

Applicants: Köster *et al.* Customer No.: 24961
Serial No.: Herewith Filed: January 16, 2004
Our Docket No.: 24743-2309

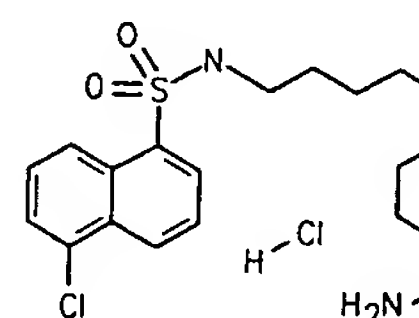
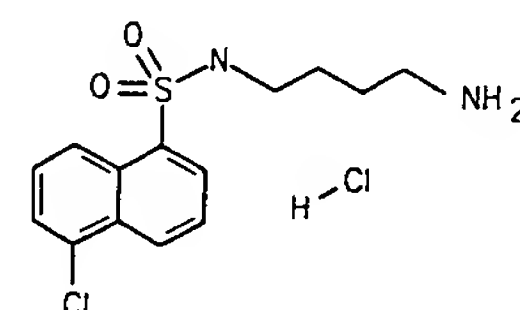
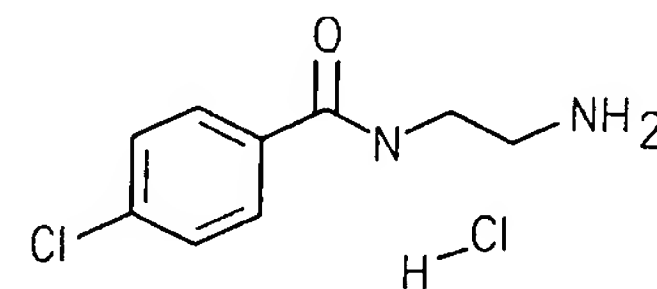
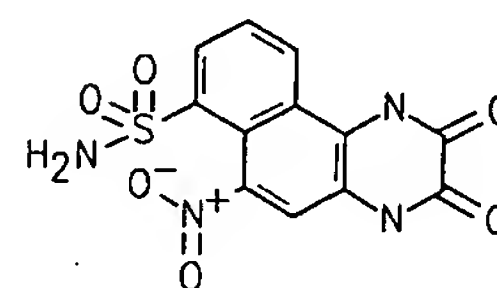
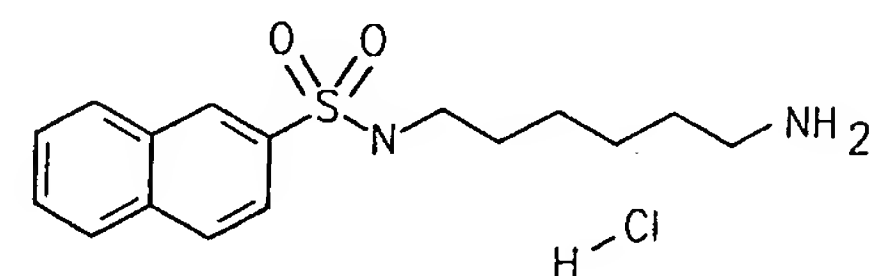
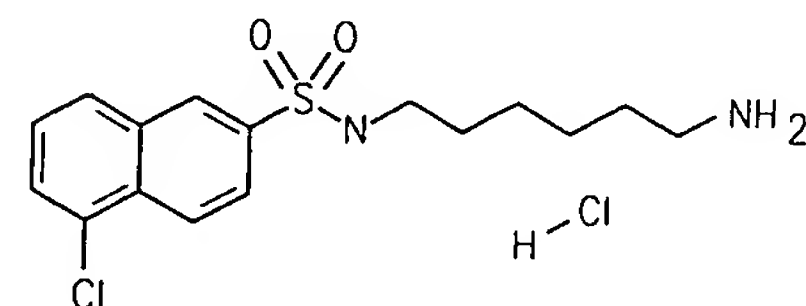
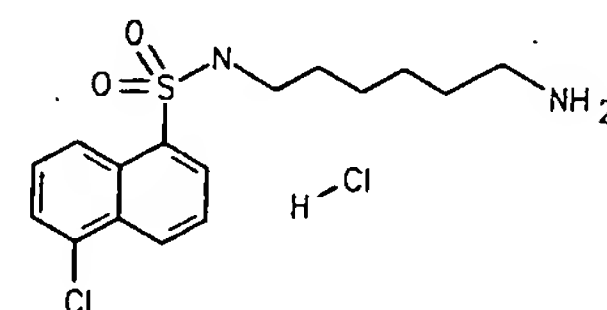
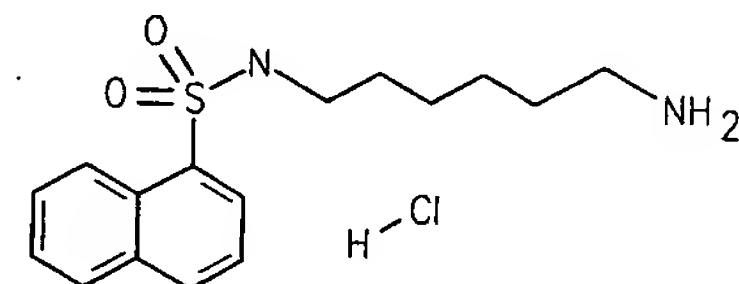
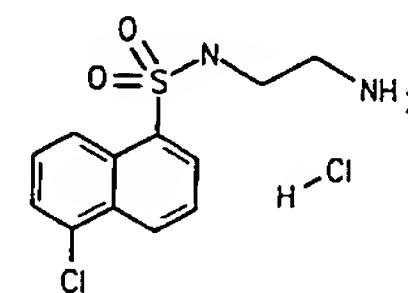
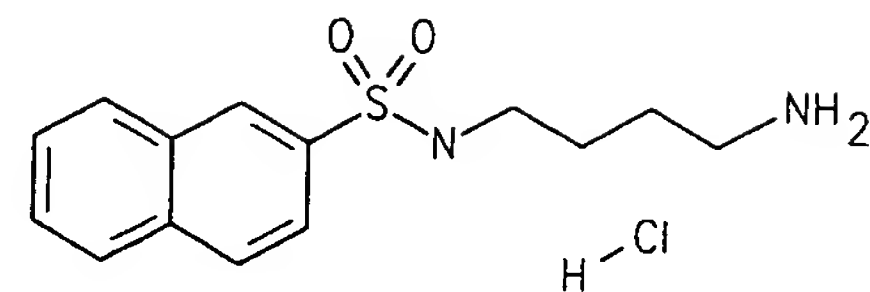
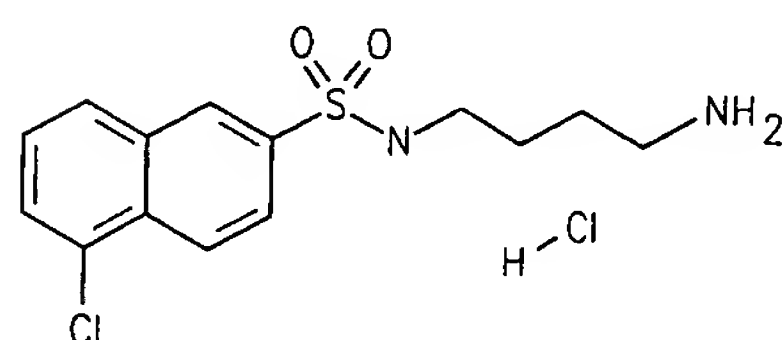
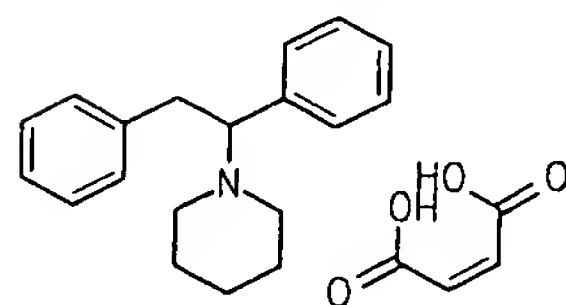
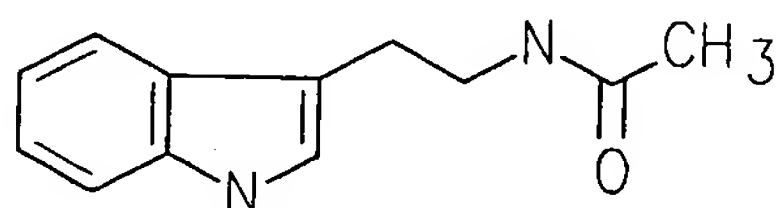
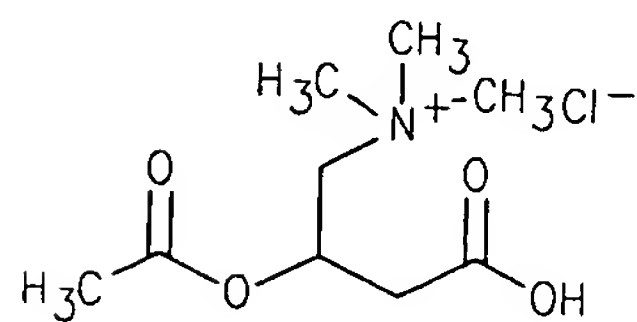
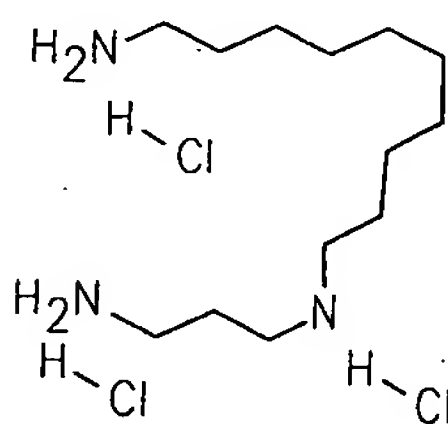
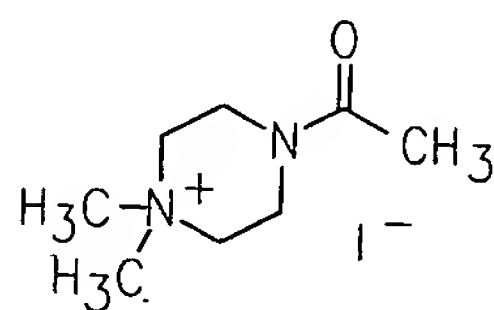
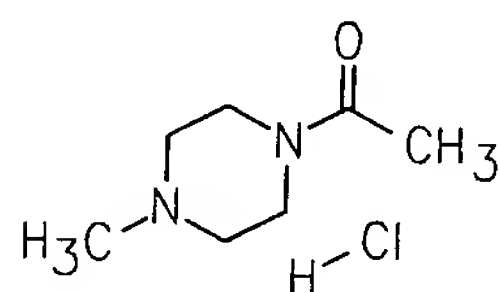
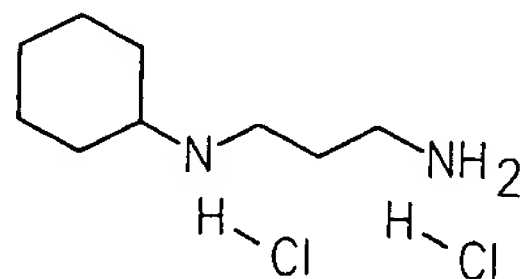
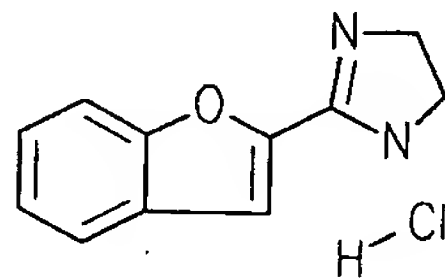
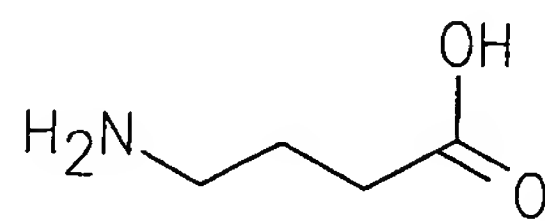


FIG. 17m

FIG. 17n

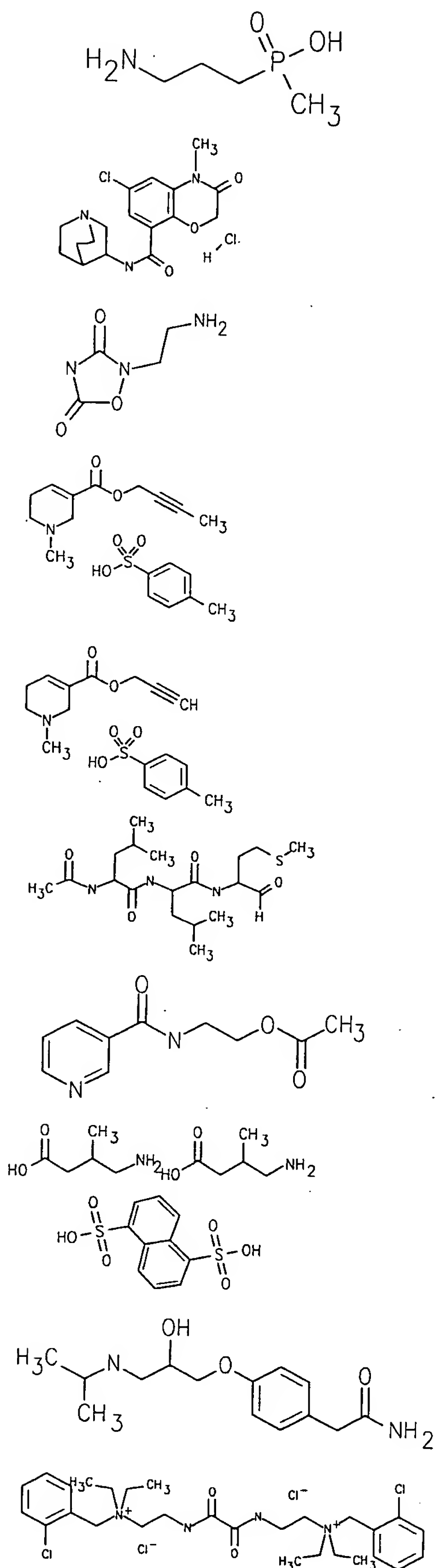


FIG. 17o

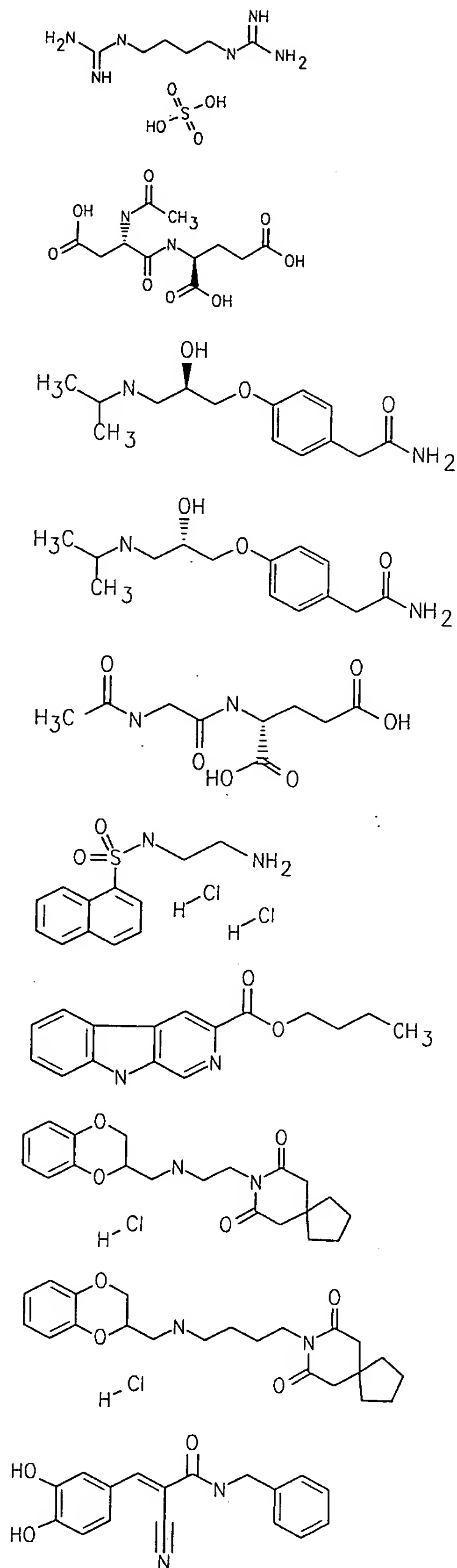


FIG. 17p

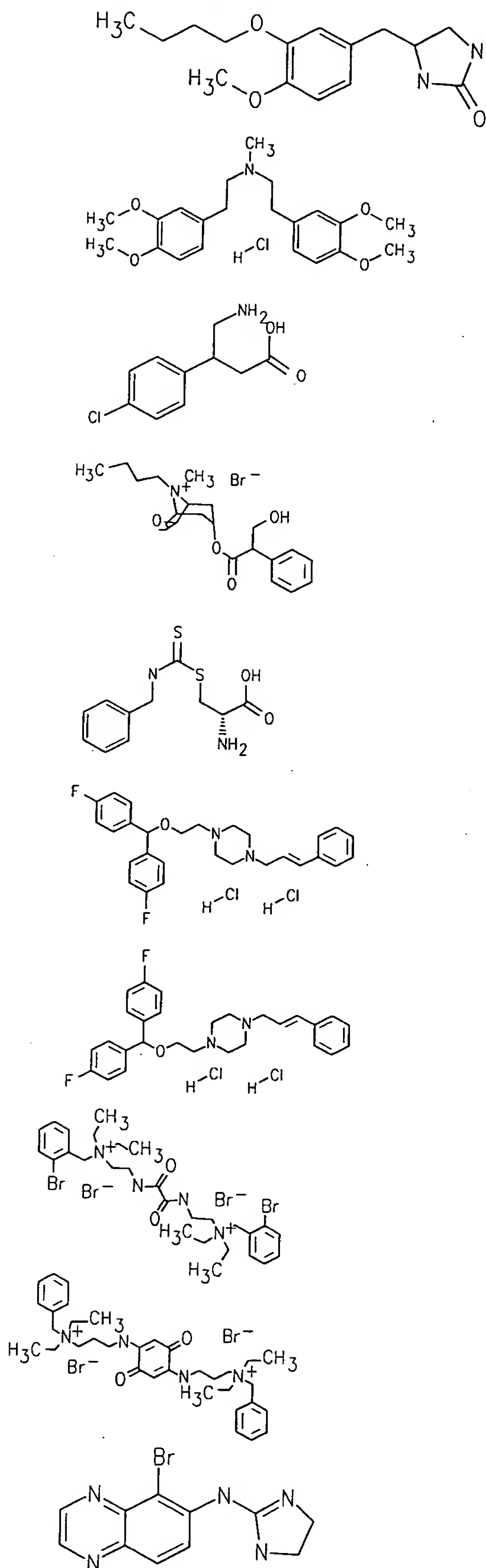


FIG. 17q

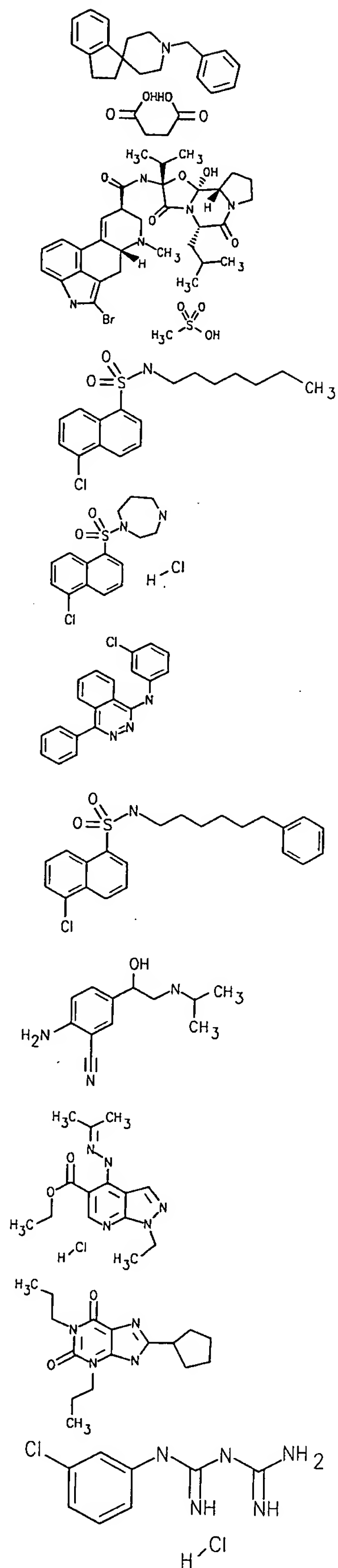


FIG. 17r

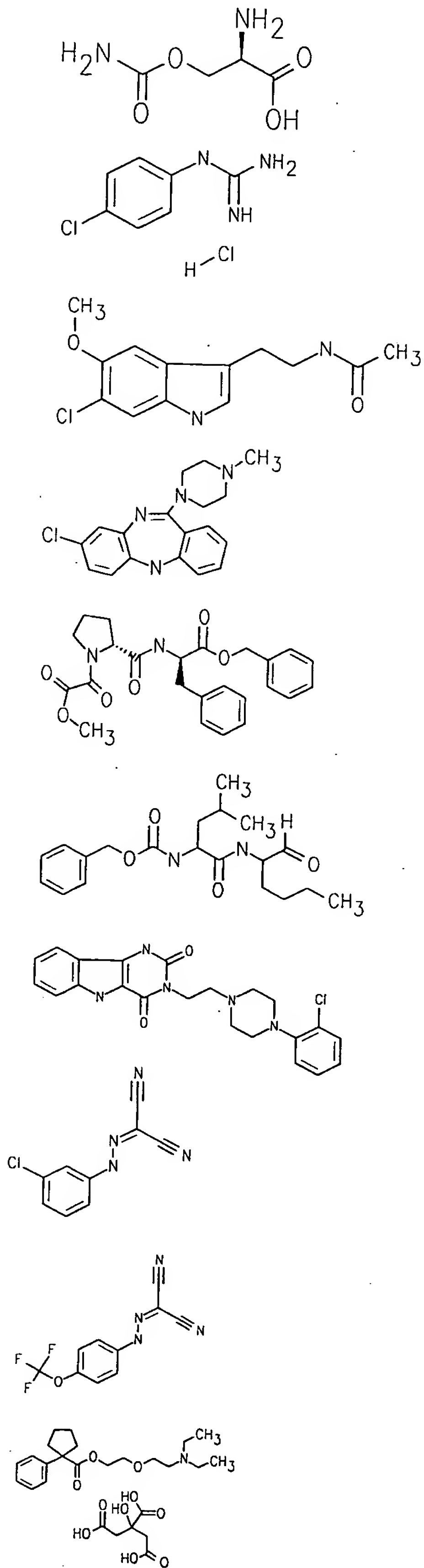


FIG. 17s

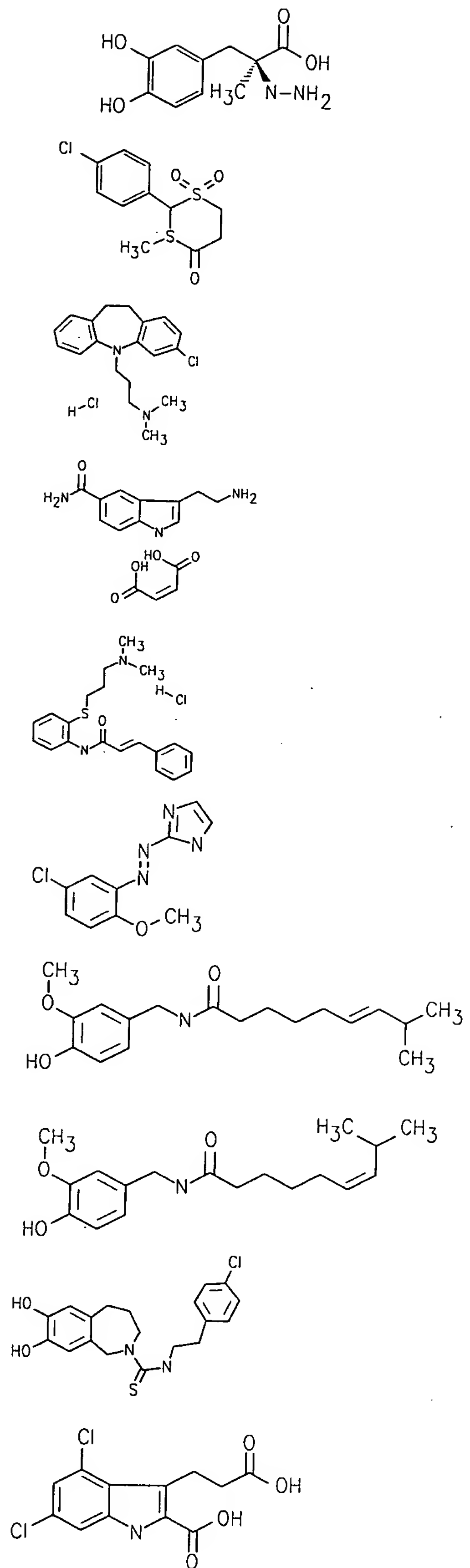


FIG. 17t

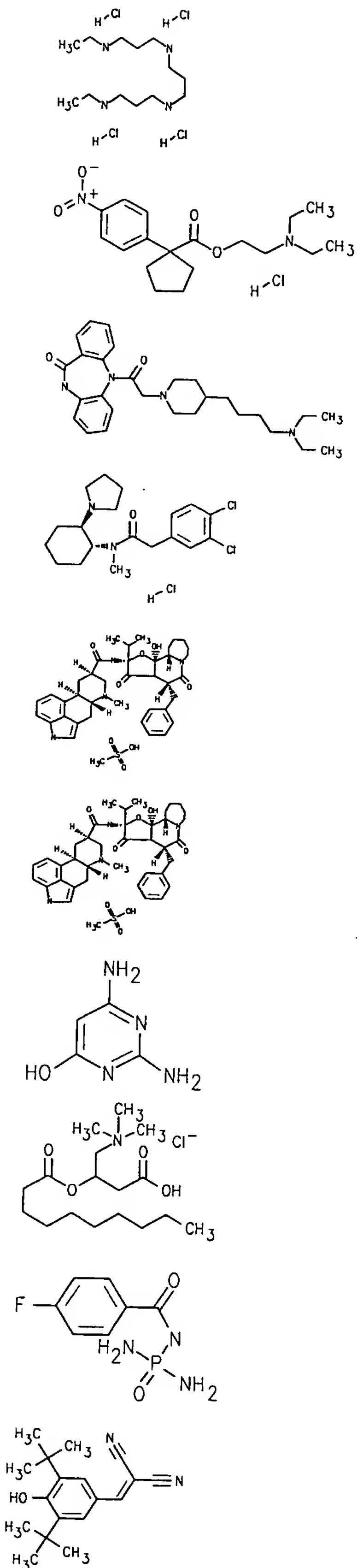
Title: CAPTURE COMPOUNDS, COLLECTIONS THEREOF AND
METHODS FOR ANALYZING THE PROTEOME AND
COMPLEX COMPOSITIONSApplicants: Köster *et al.* Customer No.: 24961
Serial No.: Herewith Filed: January 16, 2004
Our Docket No.: 24743-2309

FIG. 17u

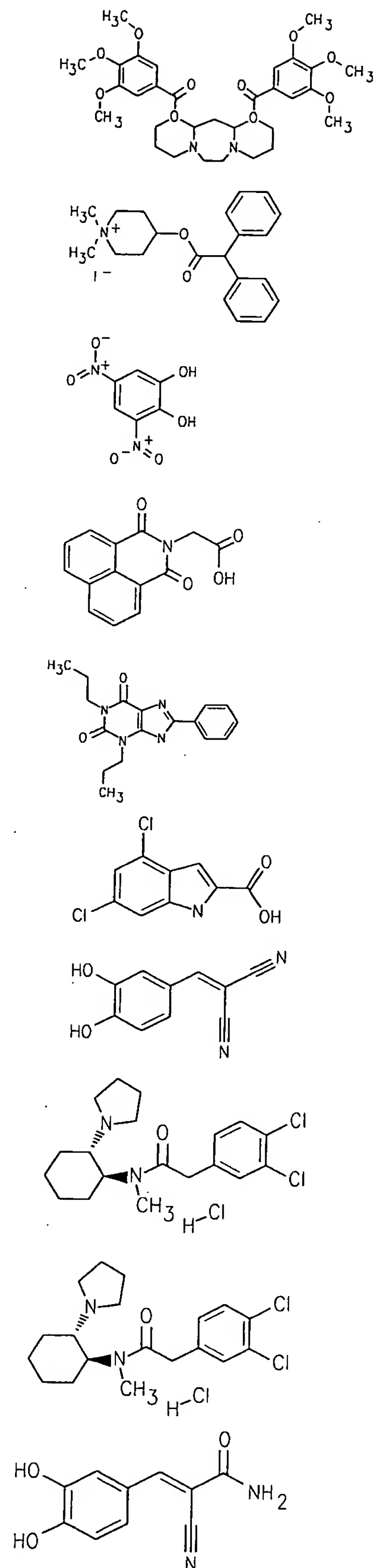


FIG. 17v

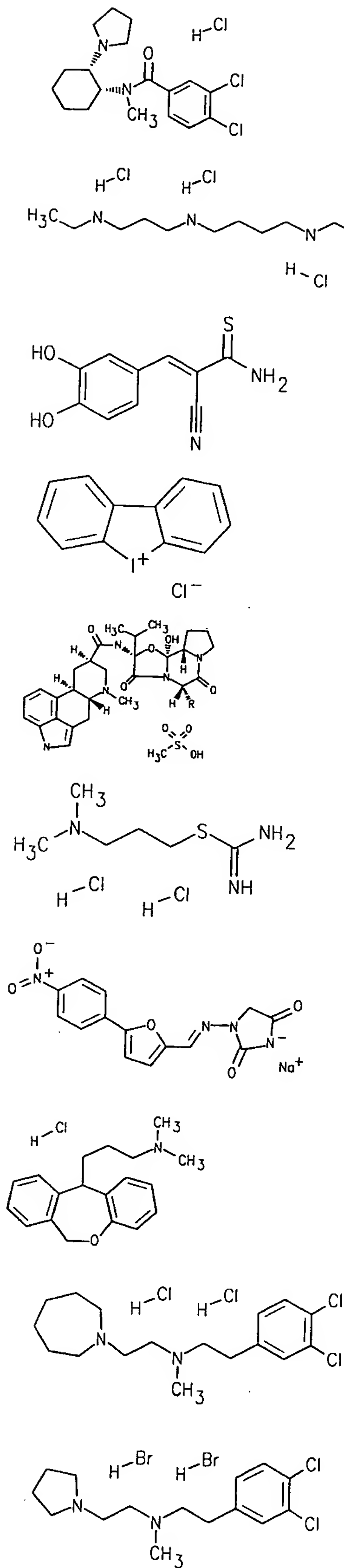


FIG. 17w

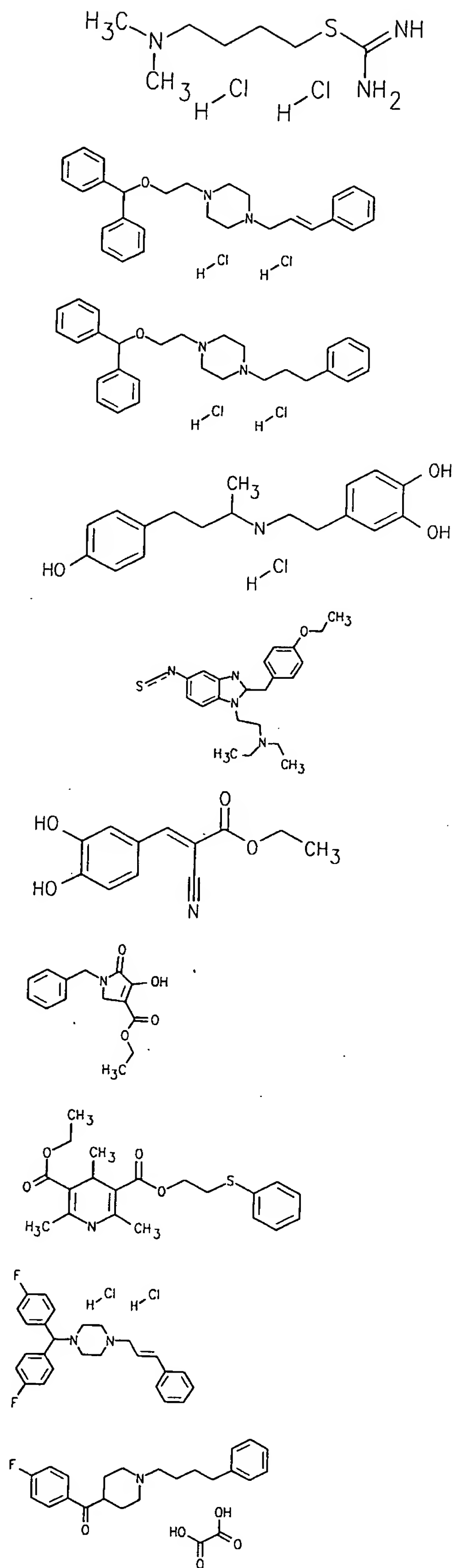


FIG. 17x

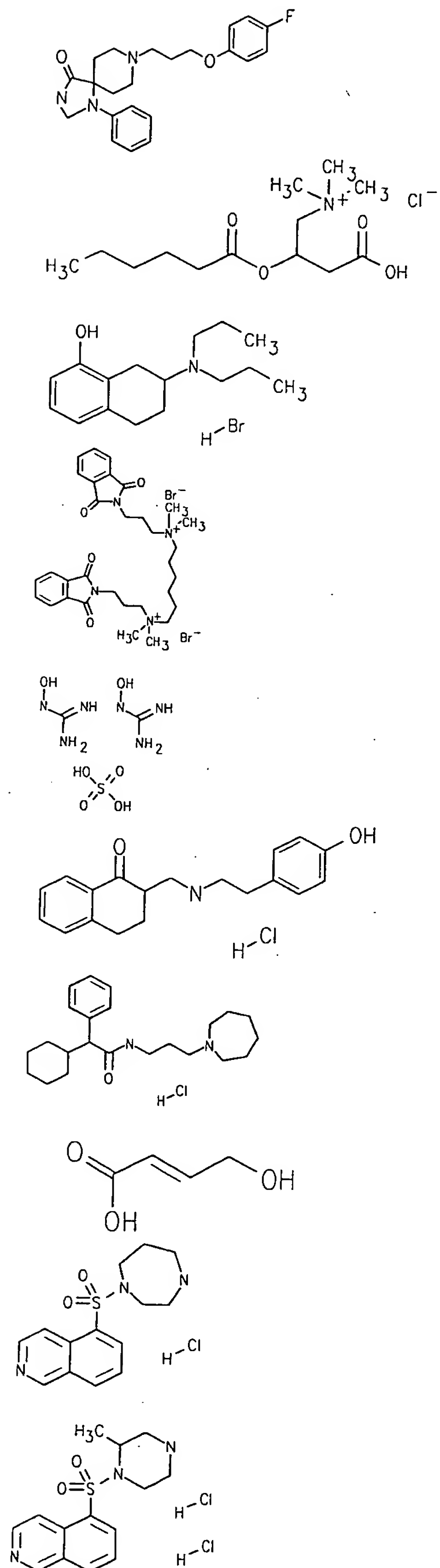


FIG. 17y

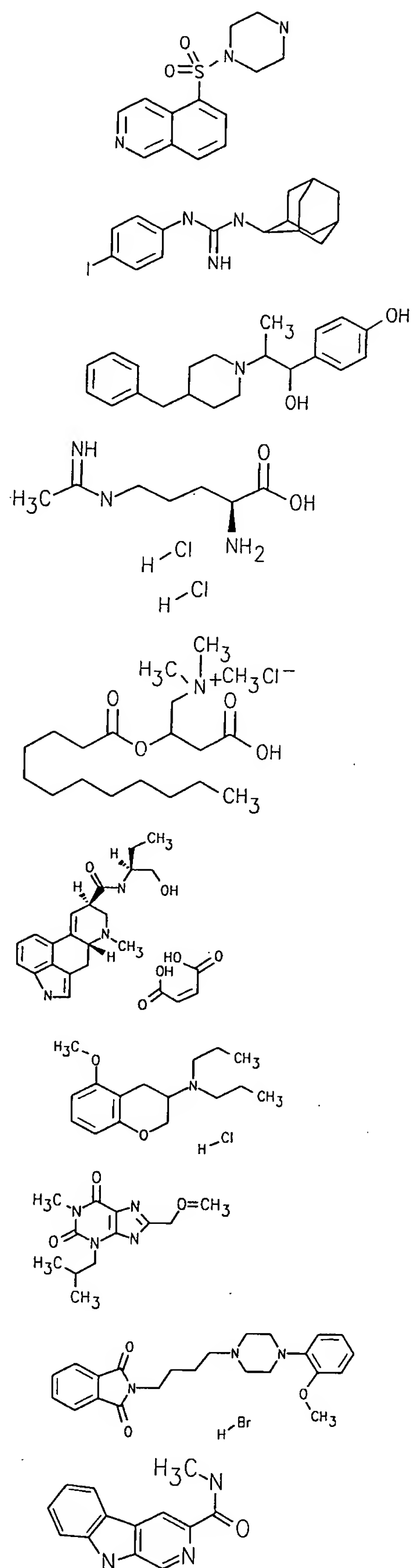


FIG. 17z

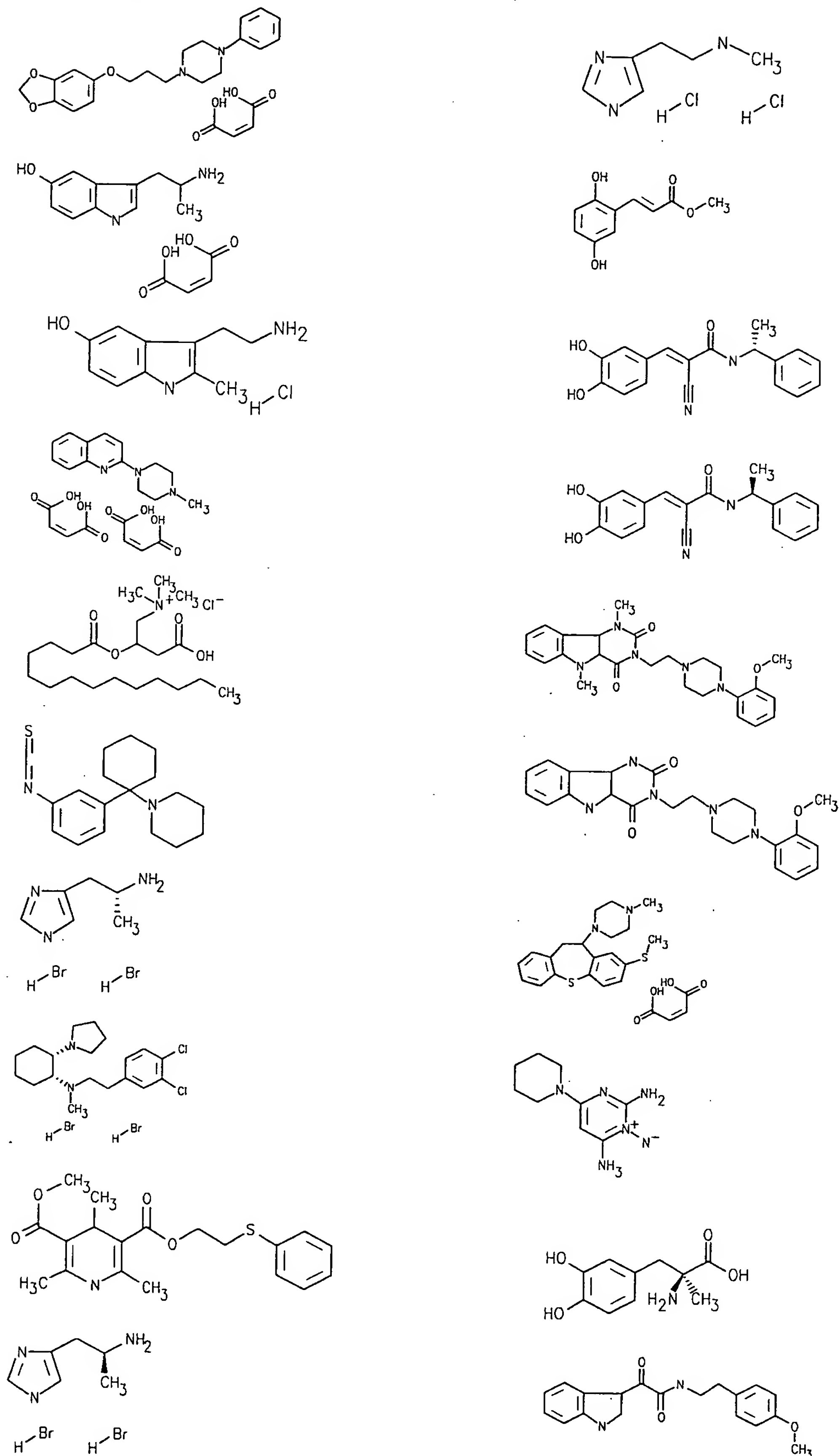


FIG. 17aa

FIG. 17bb

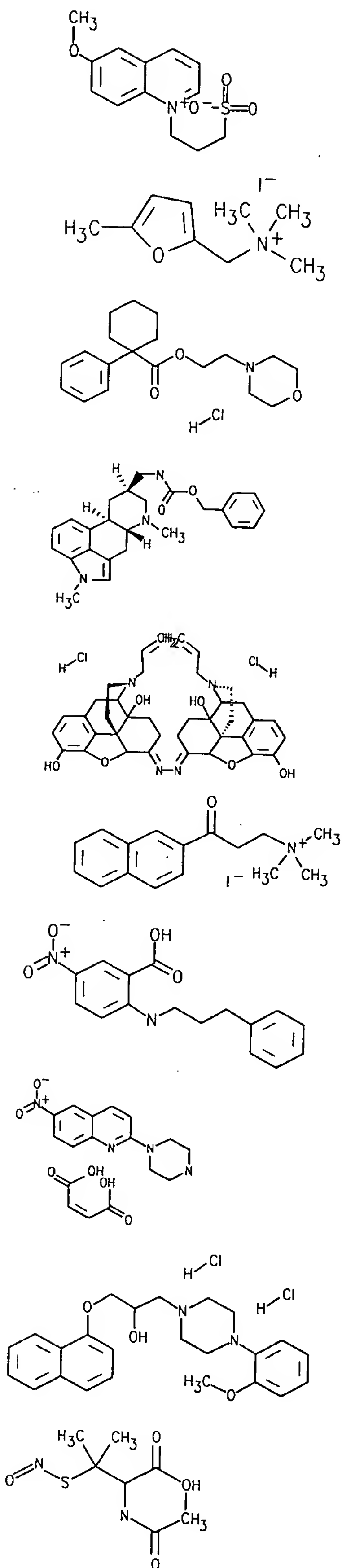


FIG. 17cc

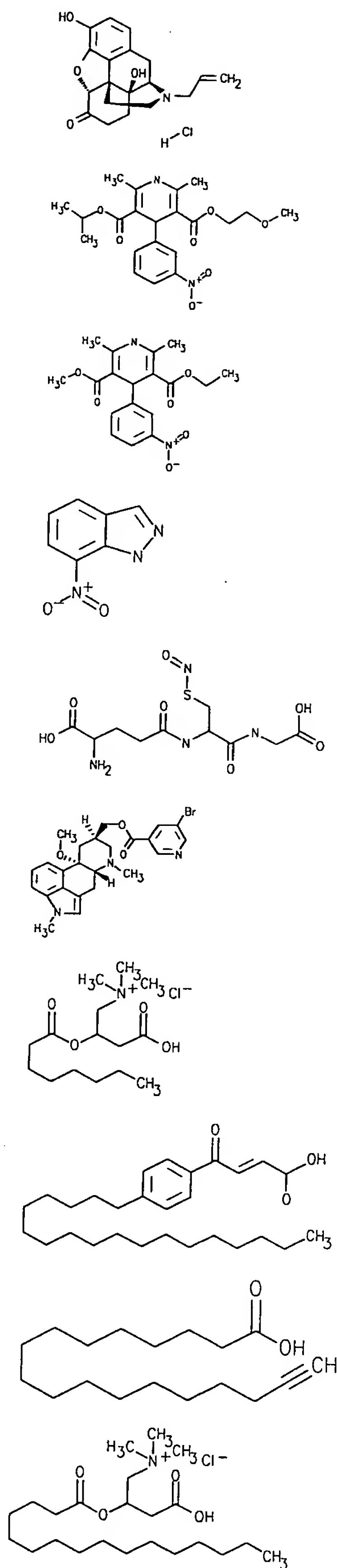


FIG. 17dd

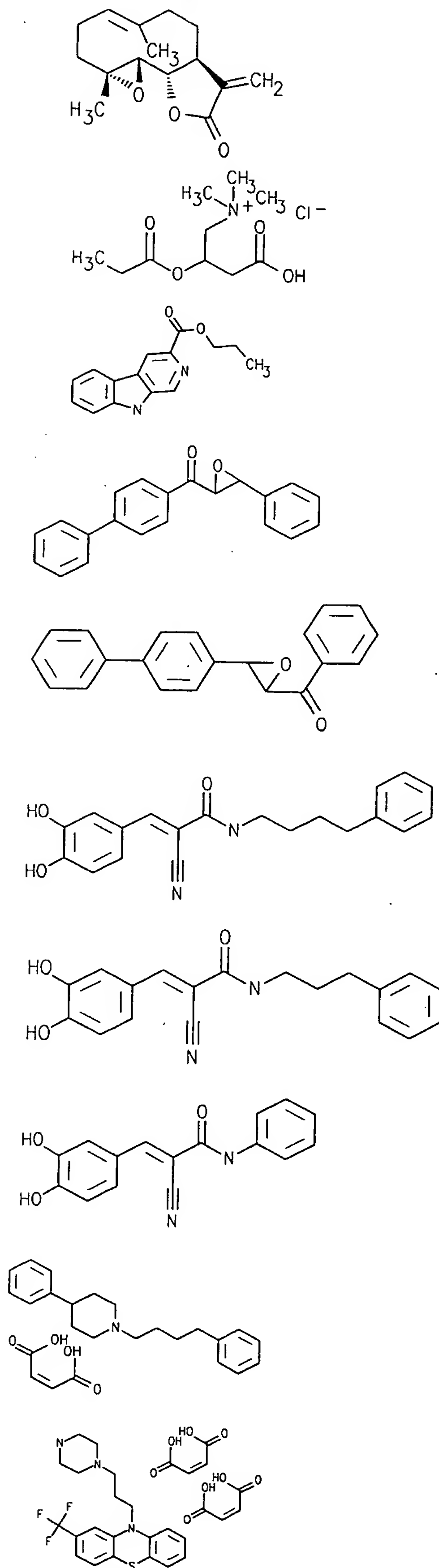


FIG. 17ee

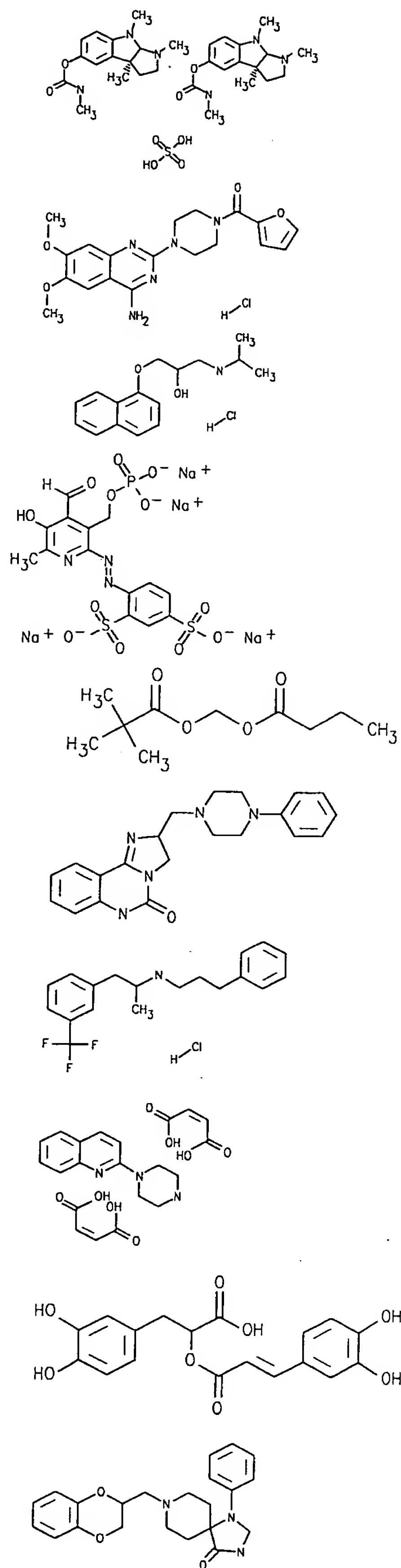


FIG. 17ff

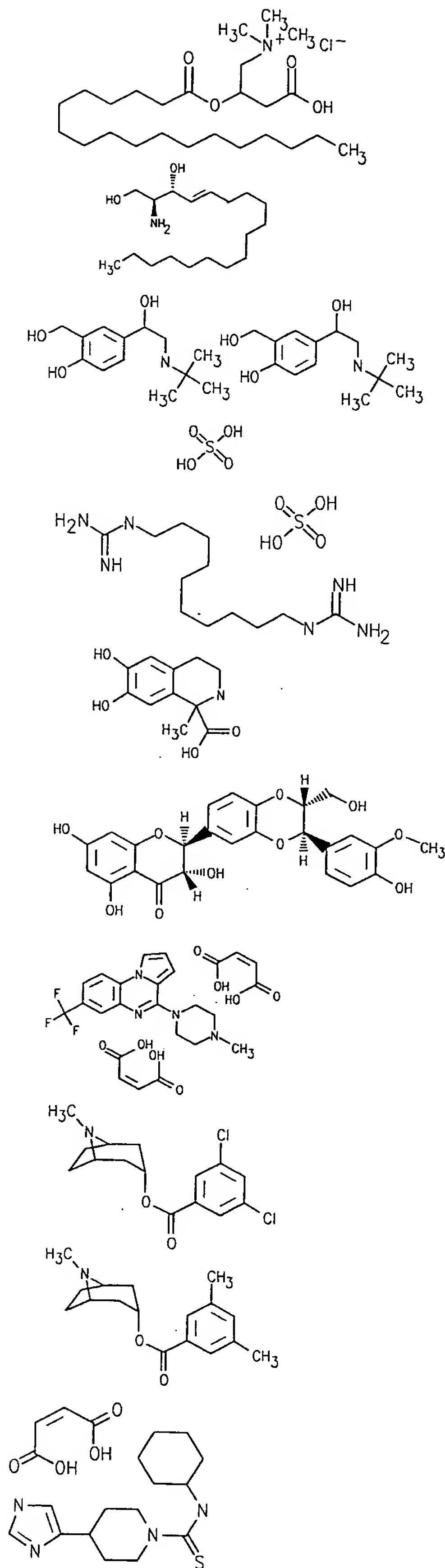


FIG. 17gg

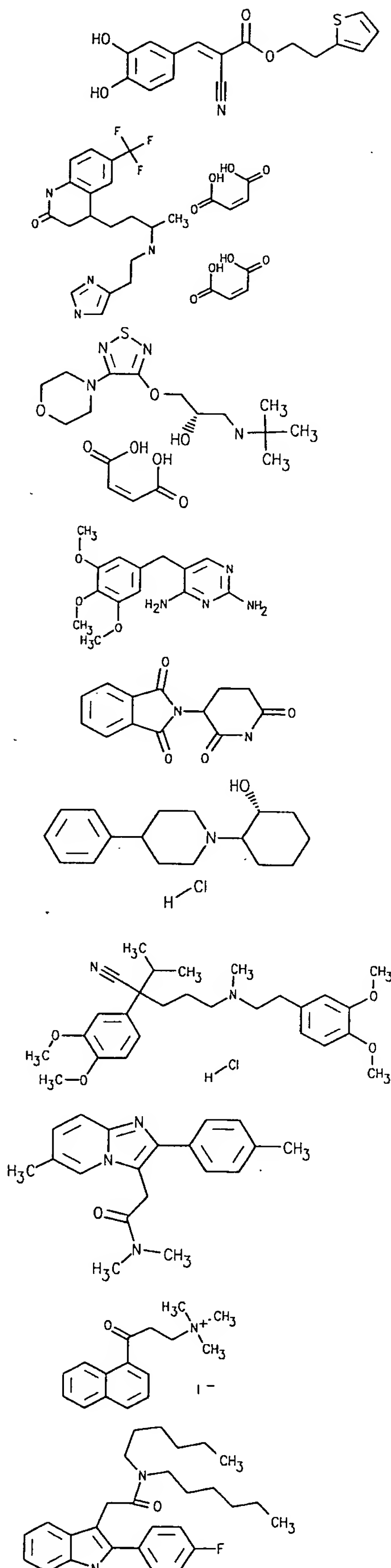


FIG. 17hh

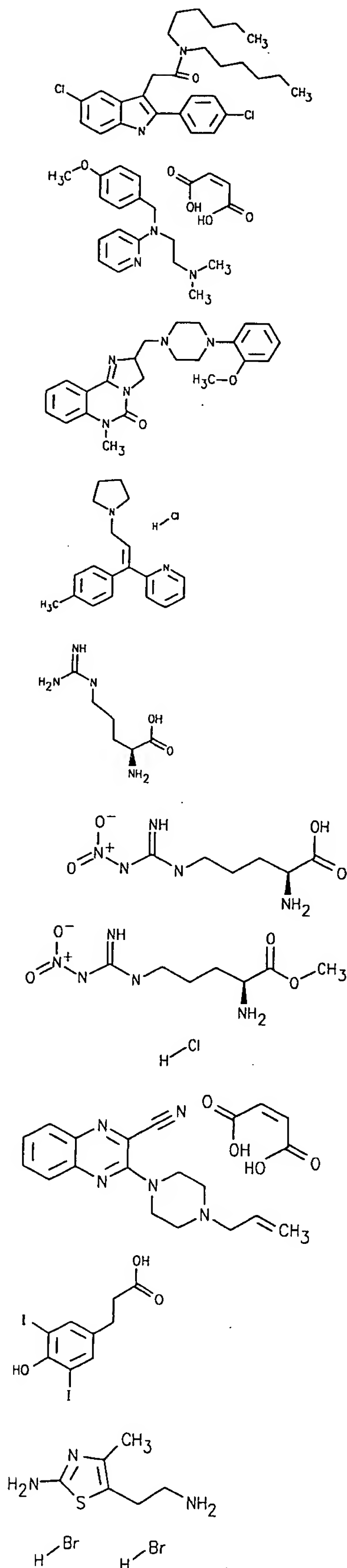


FIG. 17ii

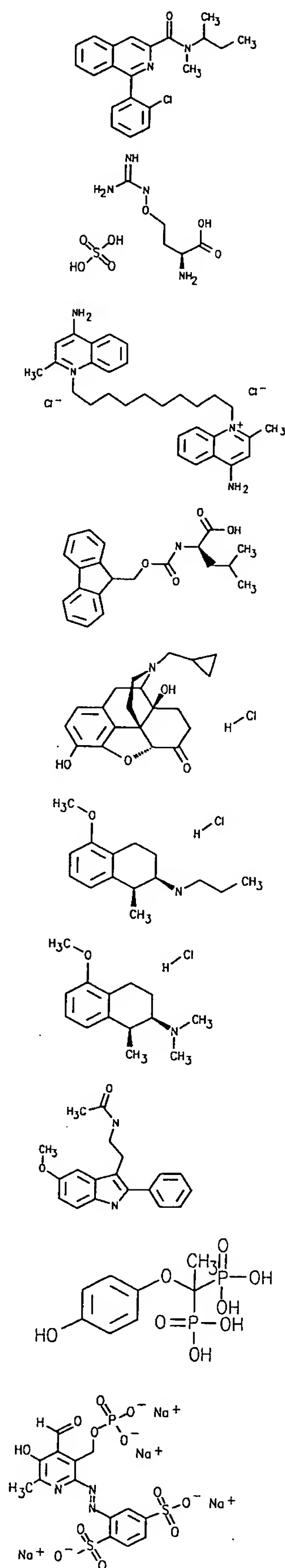


FIG. 17jj

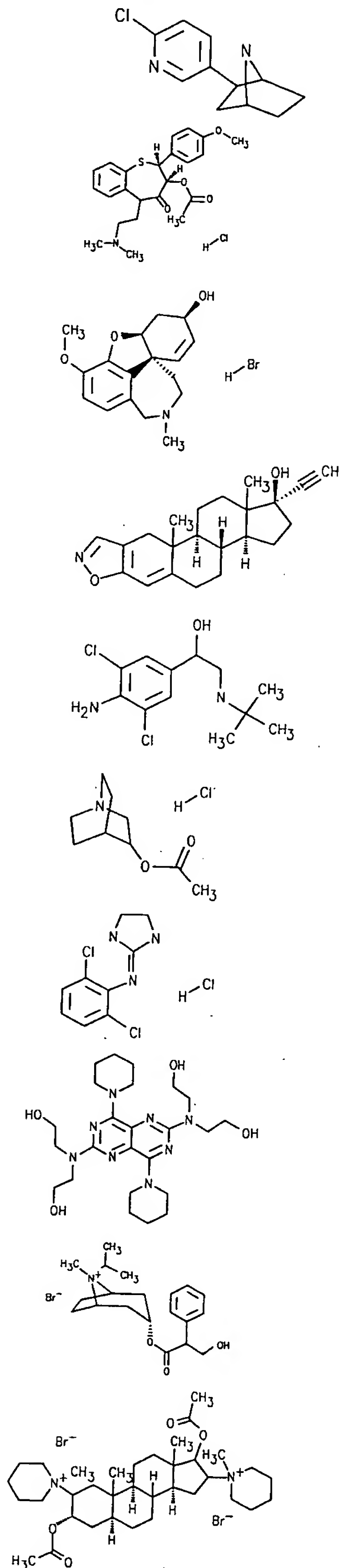


FIG. 17kk

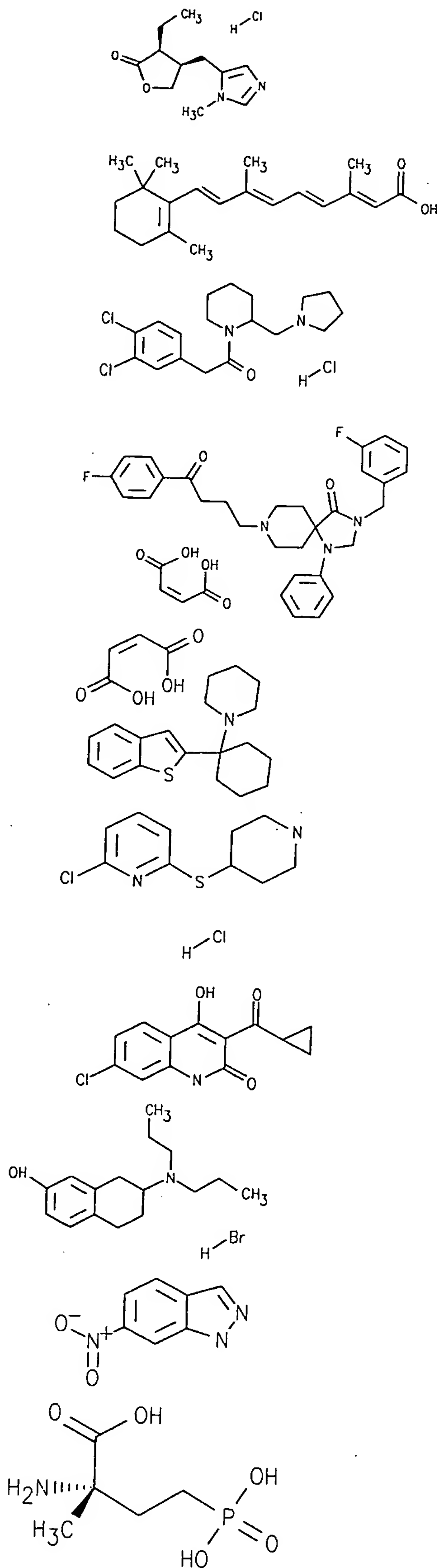


FIG. 17ll

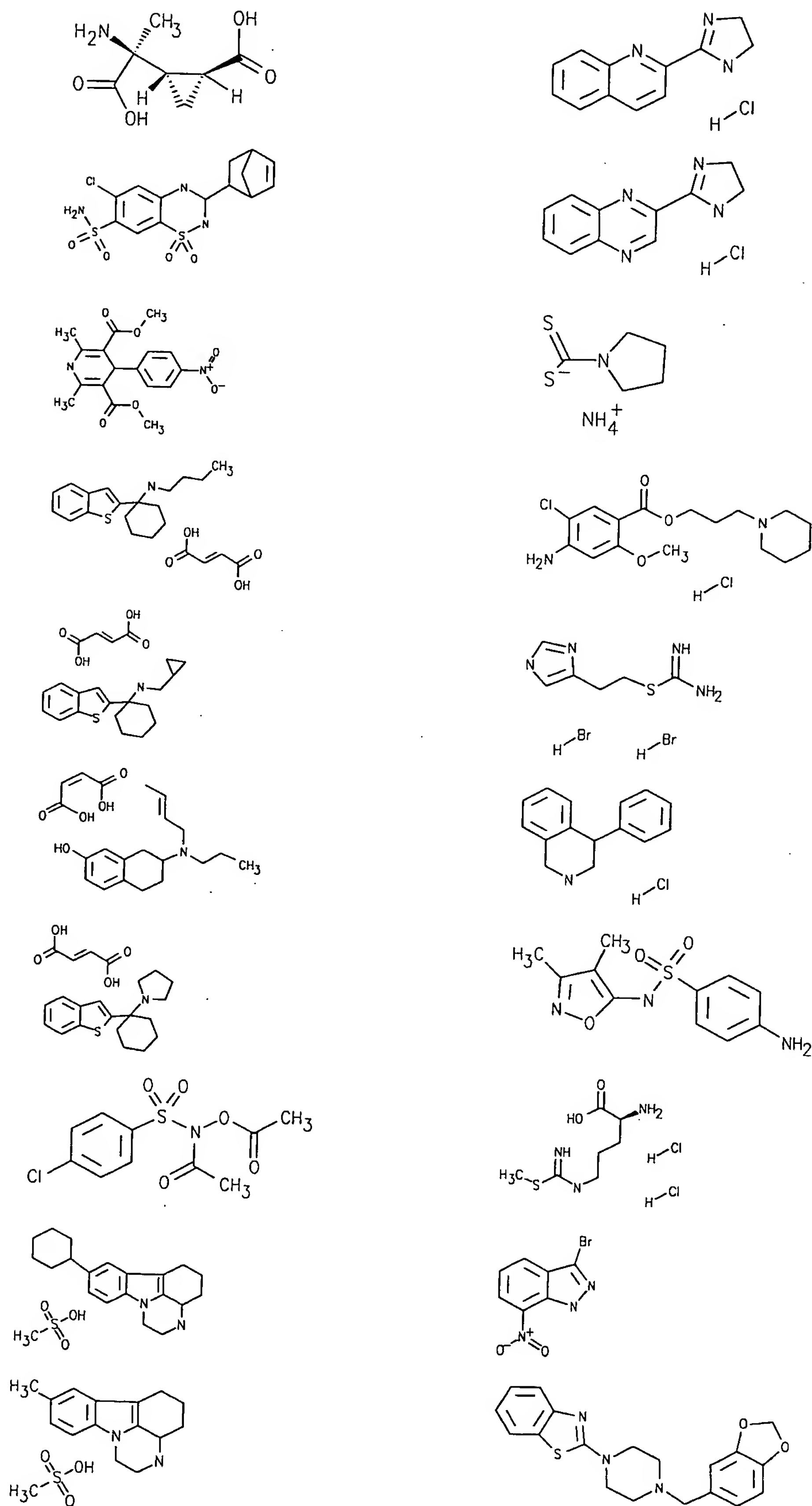


FIG. 17mm

FIG. 17nn

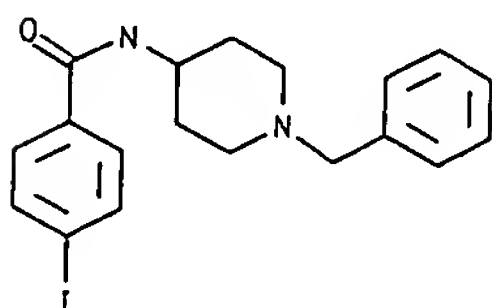
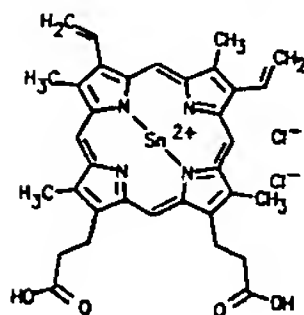
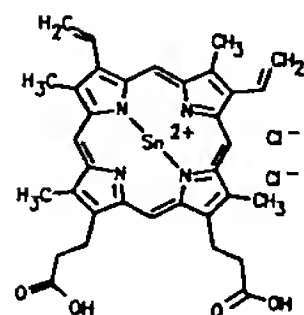
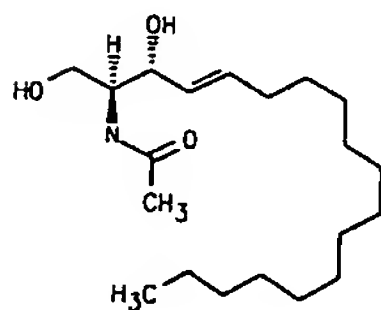
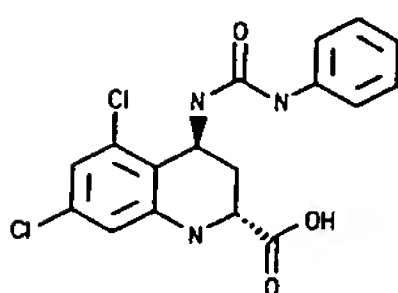
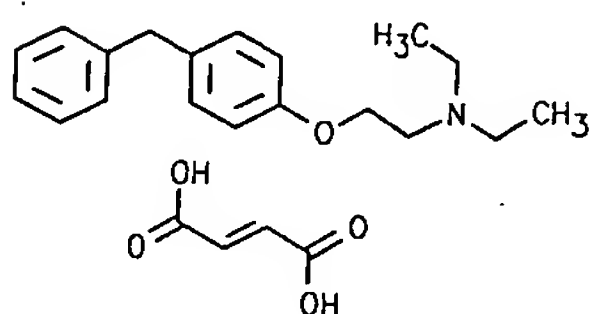
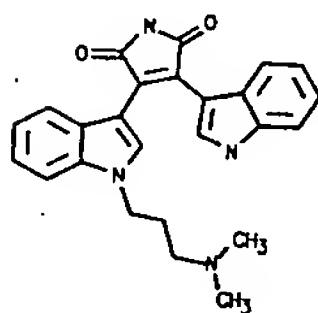
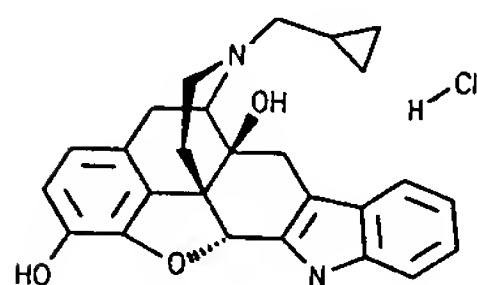
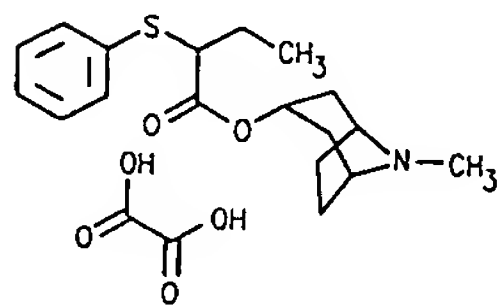
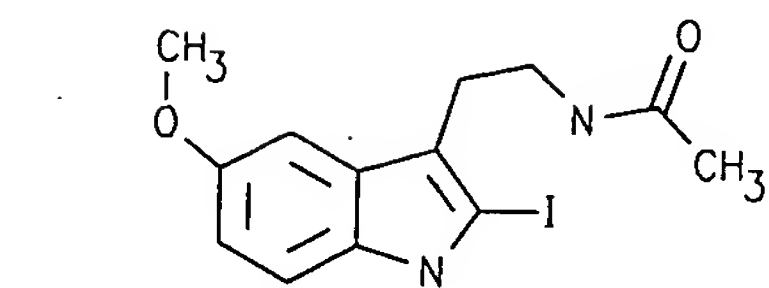


FIG. 17oo

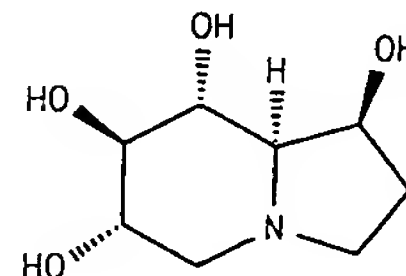
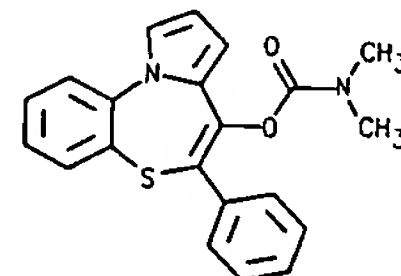
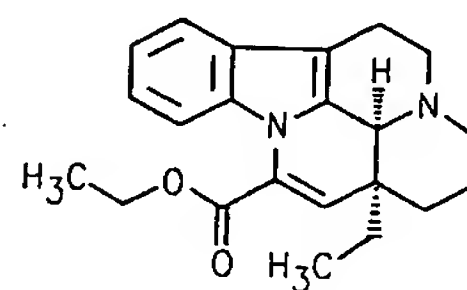
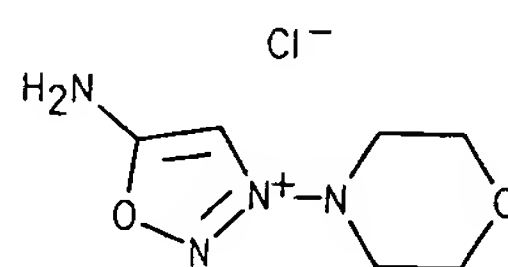
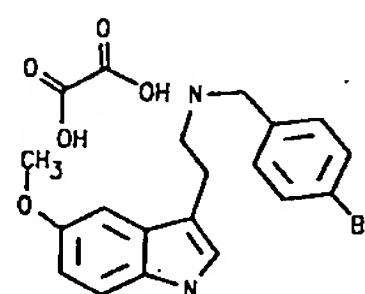
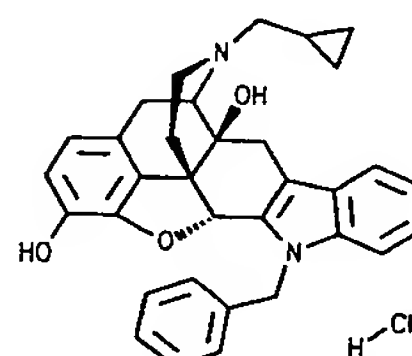
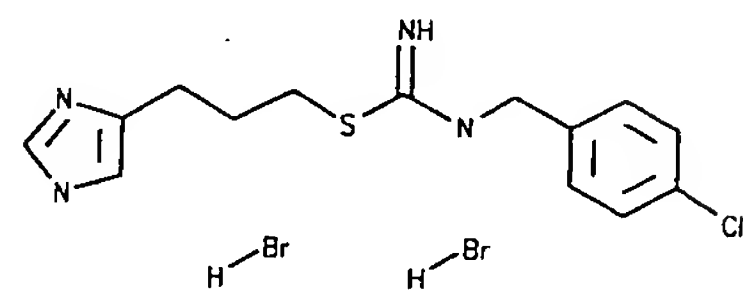
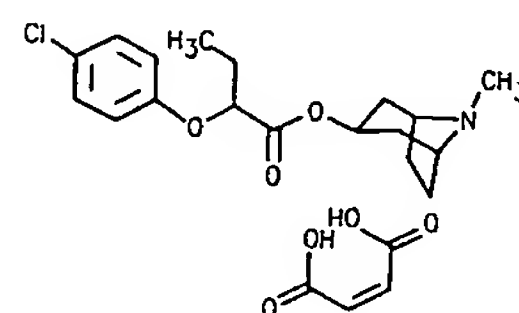
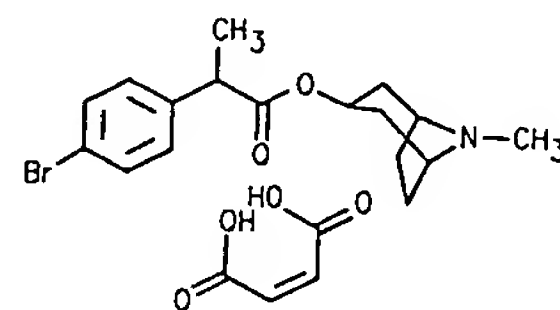
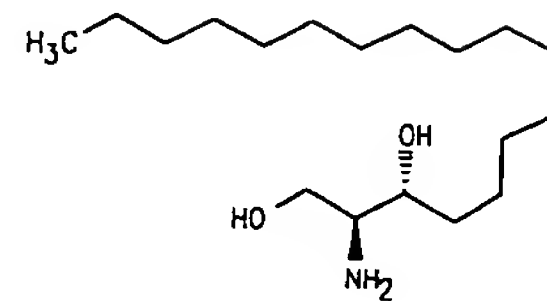


FIG. 17pp

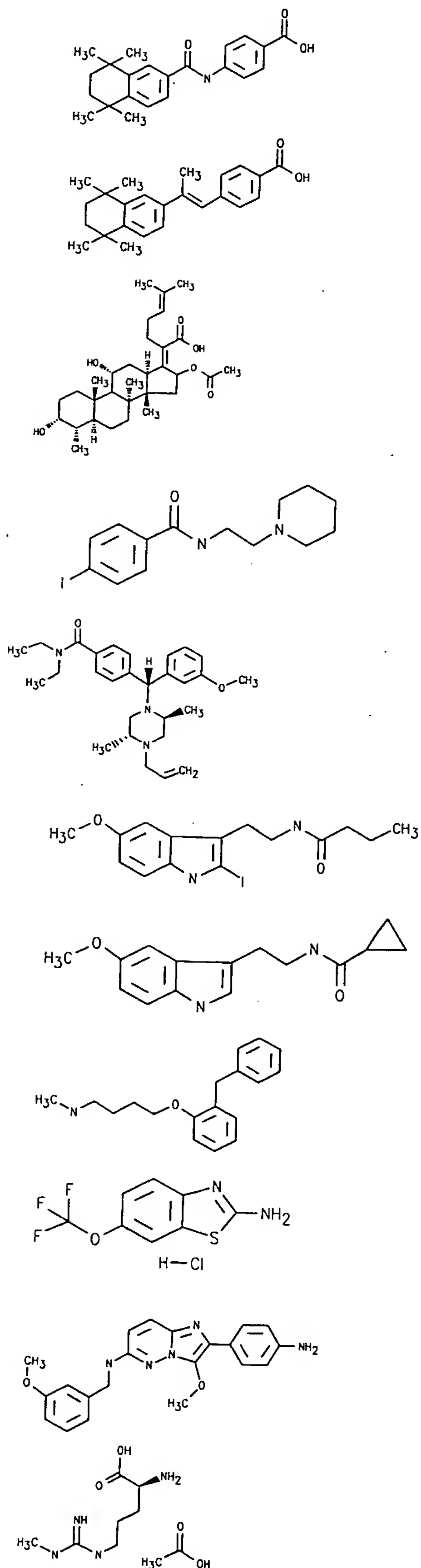


FIG. 17qq

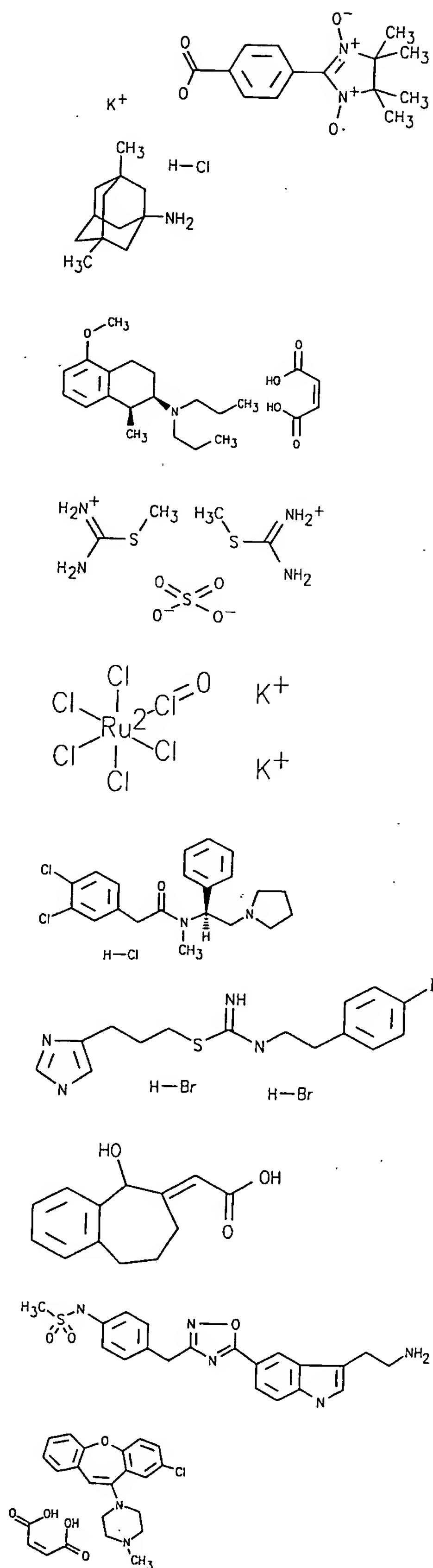


FIG. 17rr

Title: CAPTURE COMPOUNDS, COLLECTIONS THEREOF AND METHODS FOR ANALYZING THE PROTEOME AND COMPLEX COMPOSITIONS

Applicants: Köster *et al.* Customer No.: 24961

Serial No.: Herewith Filed: January 16, 2004

Case Docket No.: 24743-2309

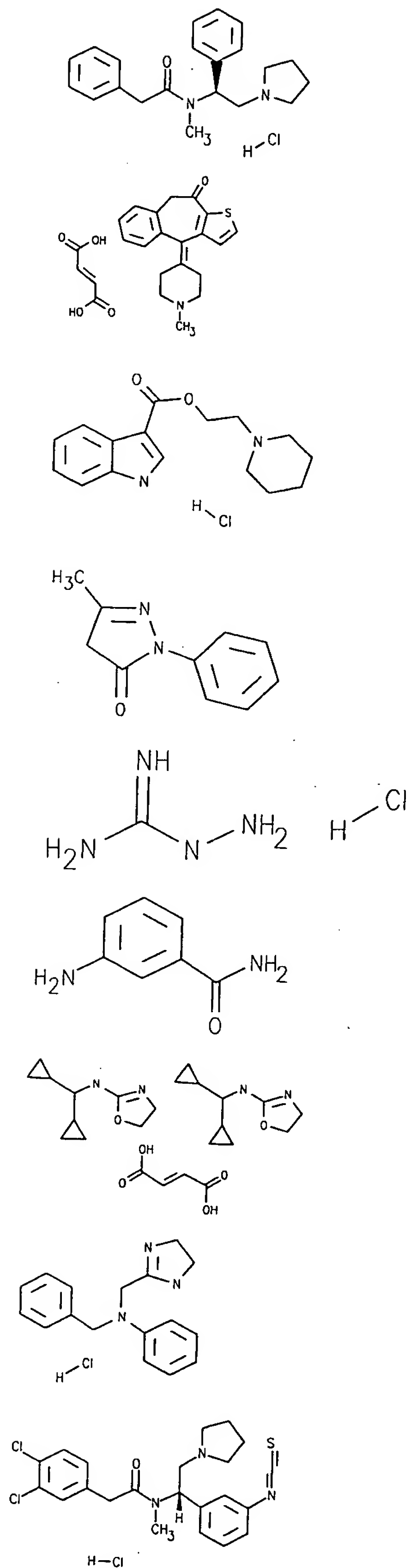


FIG. 17ss

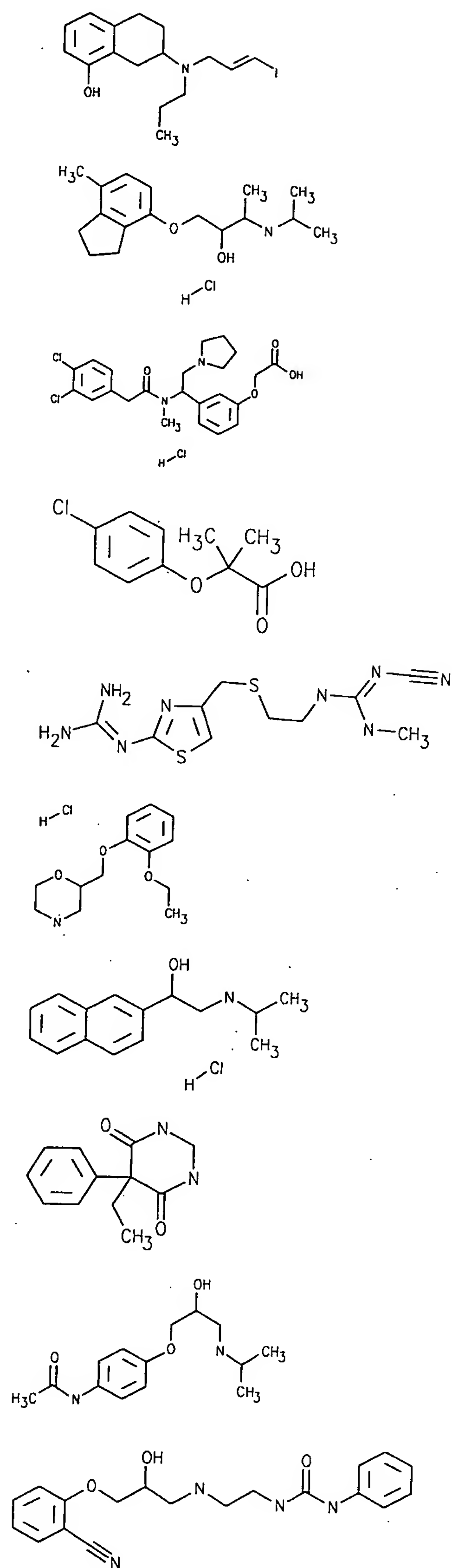


FIG. 17tt

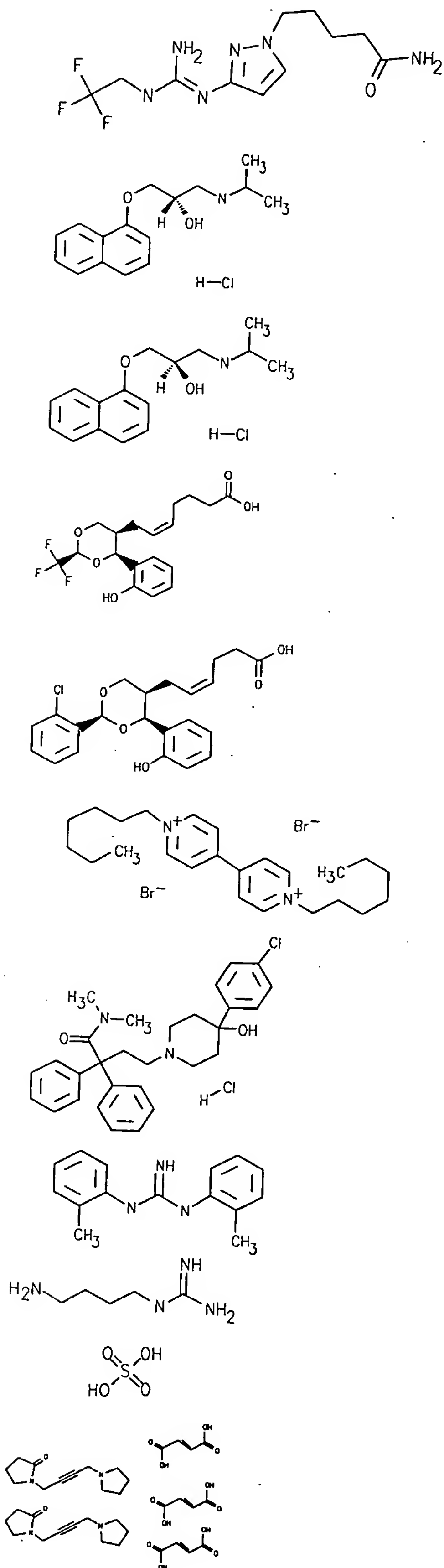


FIG. 17uu

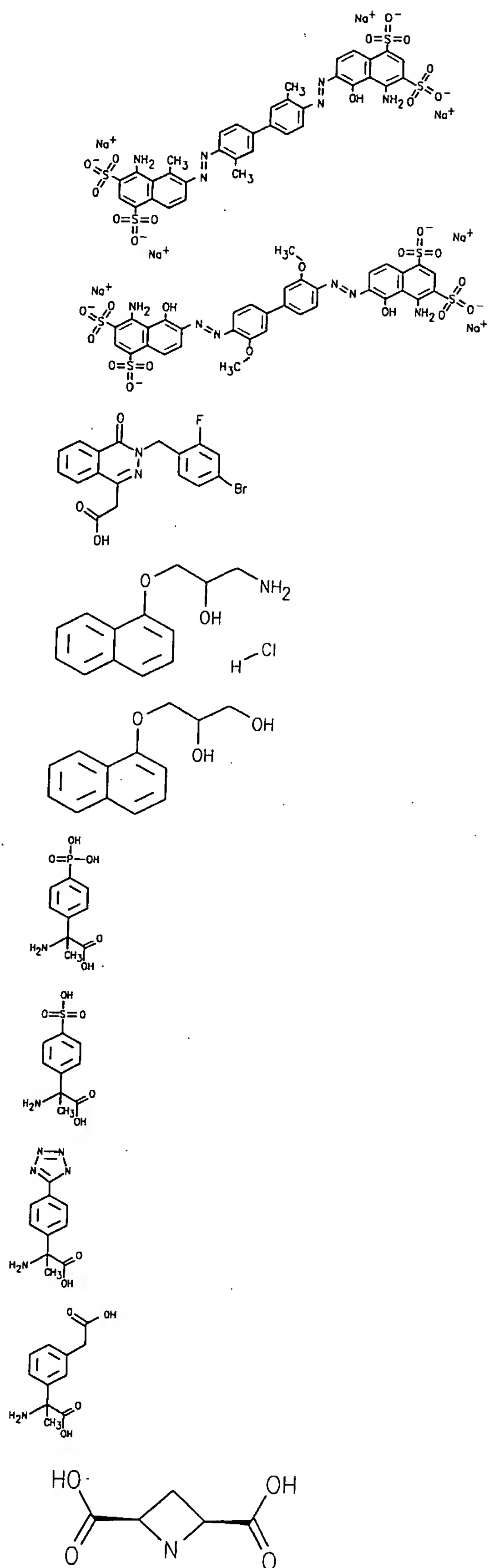


FIG. 17vv

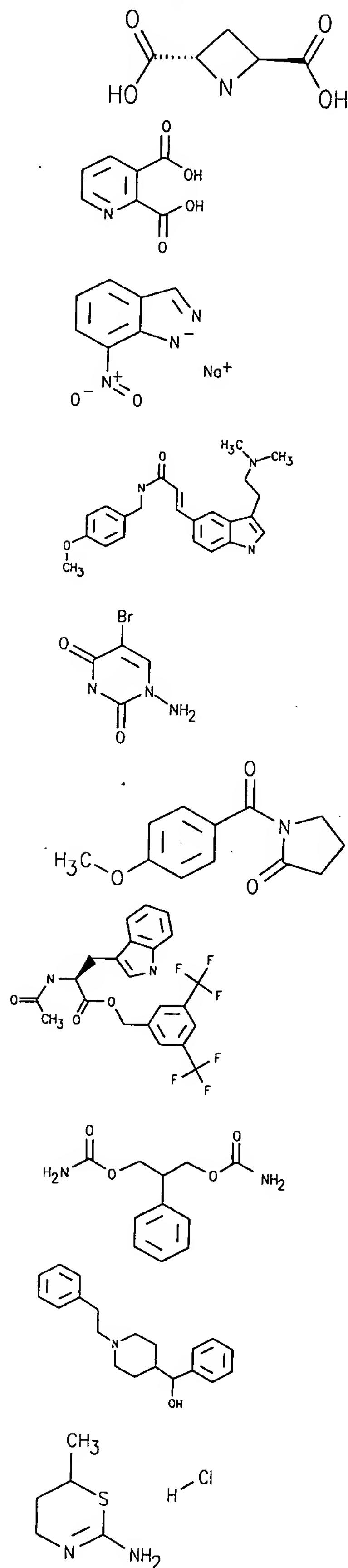


FIG. 17ww

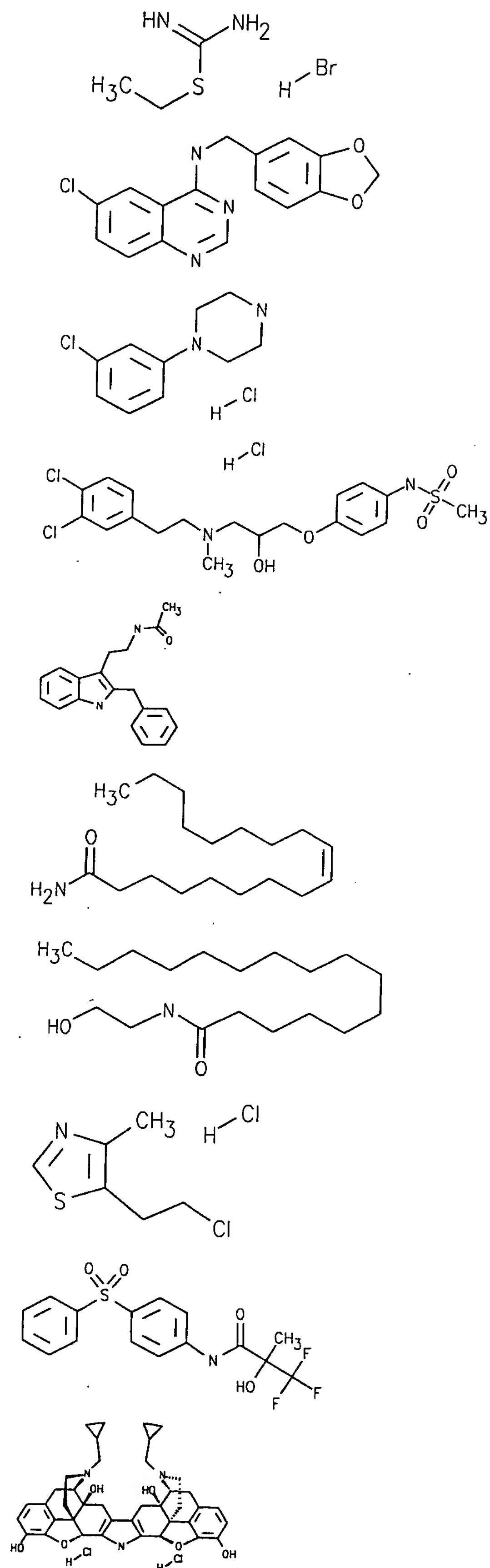


FIG. 17xx

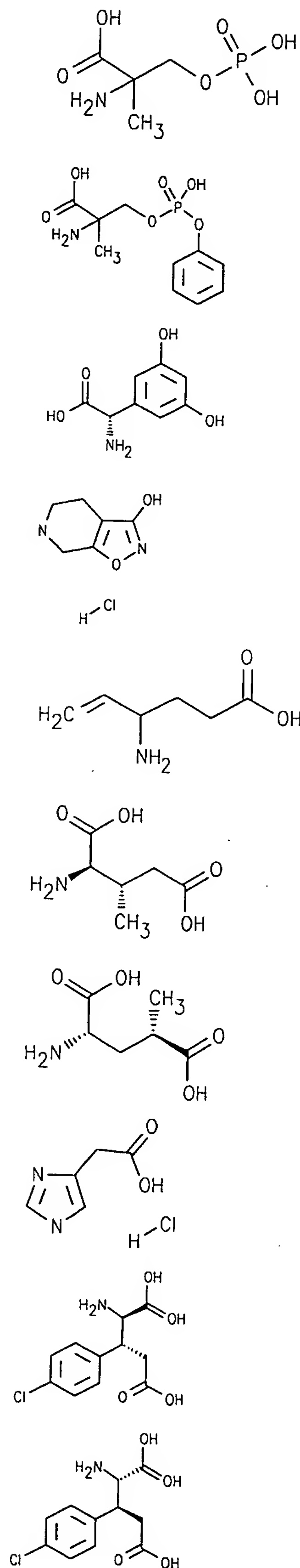


FIG. 17yy

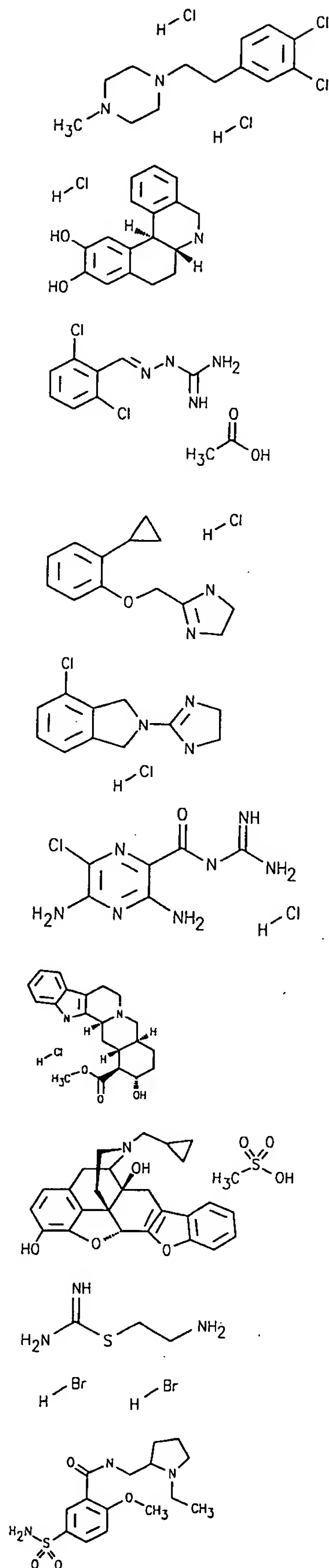


FIG. 17zz

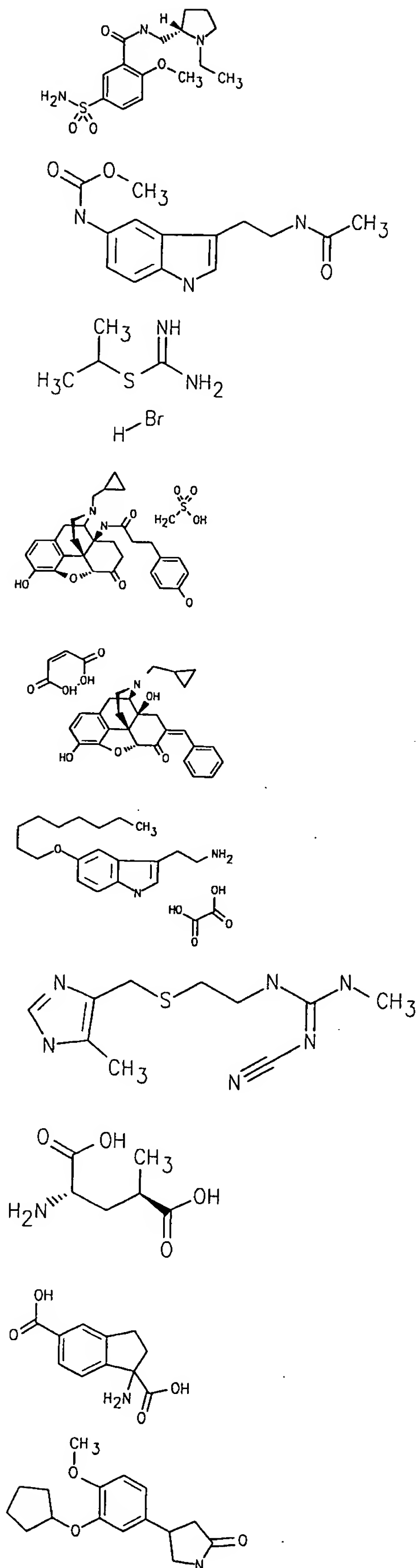


FIG. 17aaa

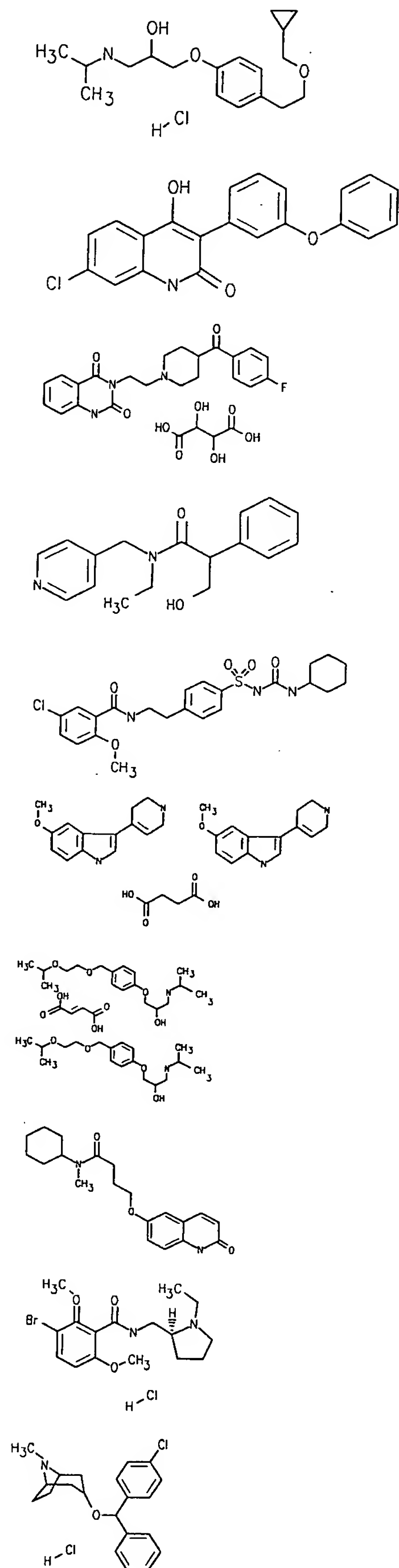


FIG. 17bbb

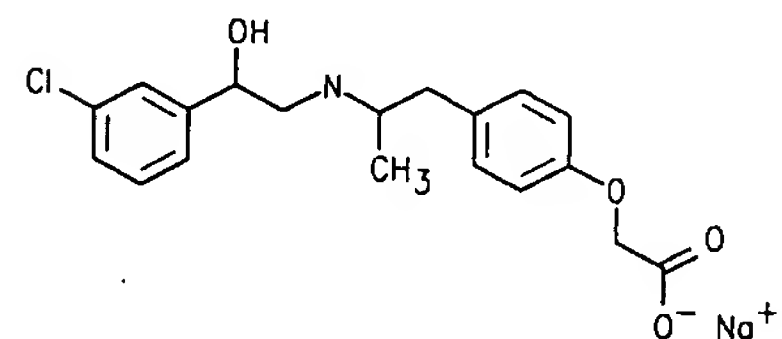
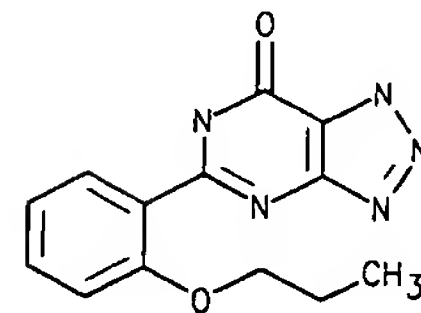
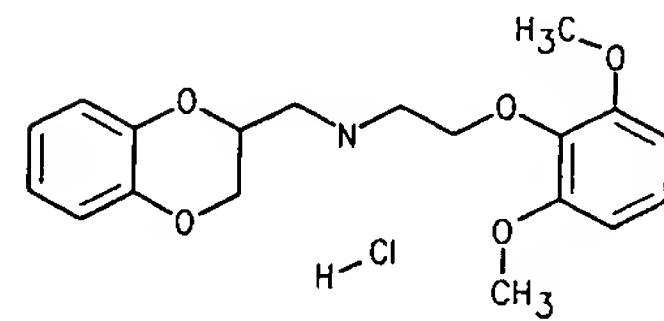
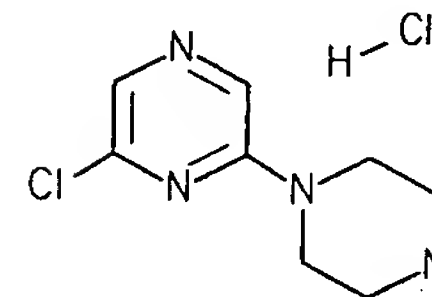
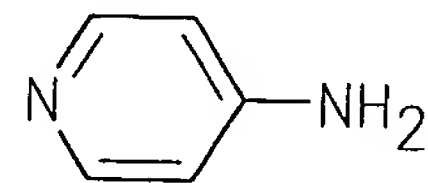
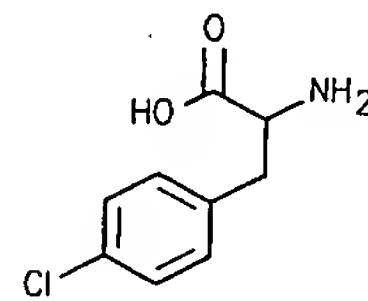
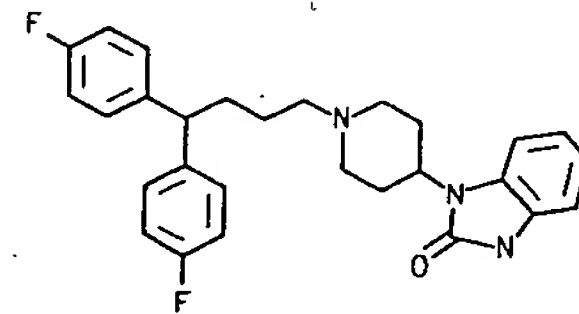
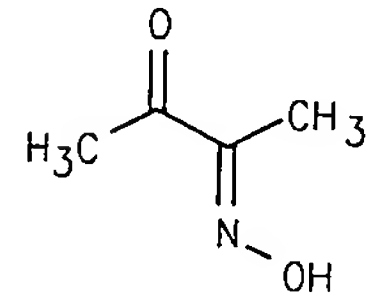
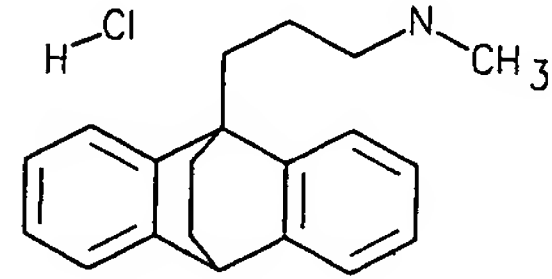
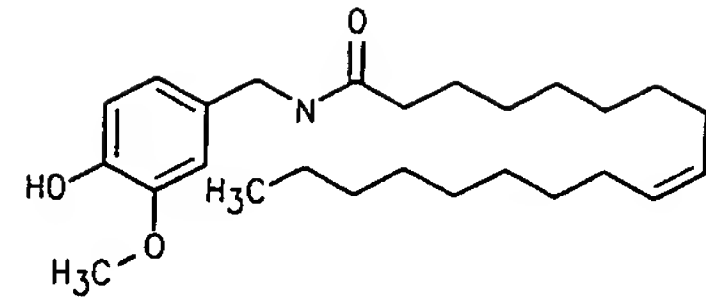
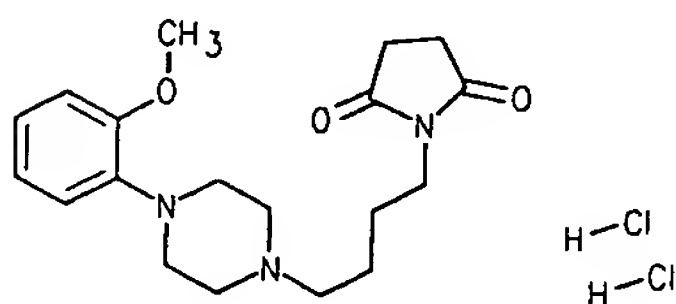
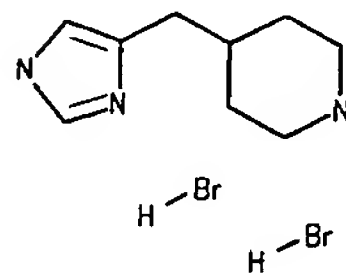
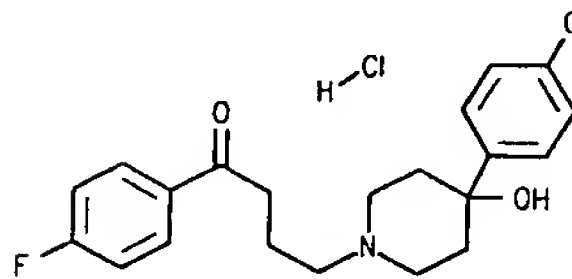
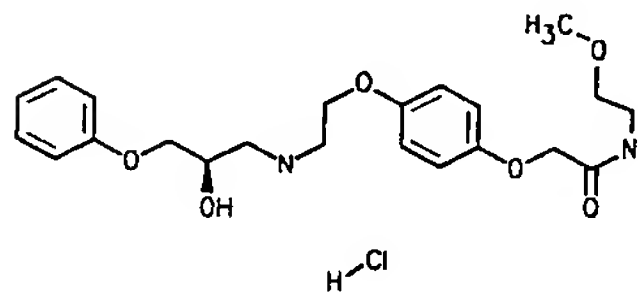
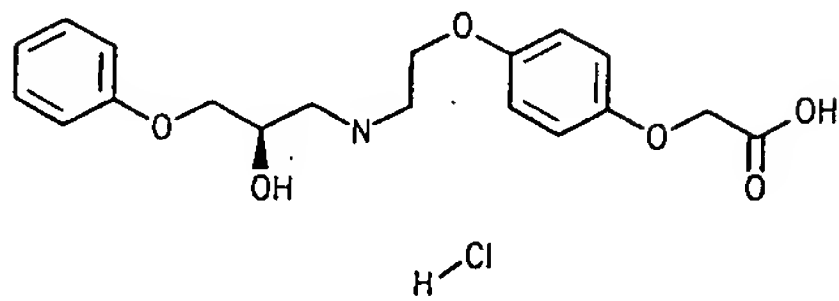
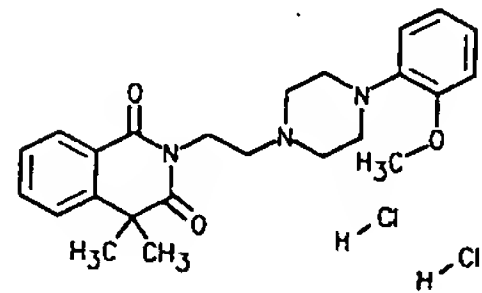
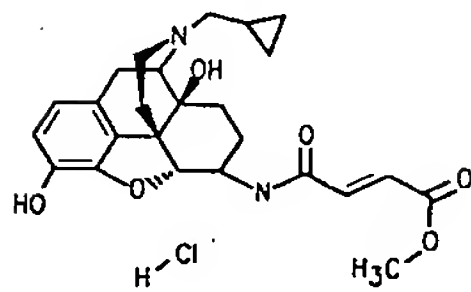
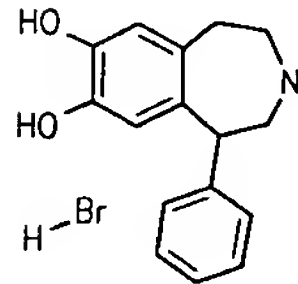
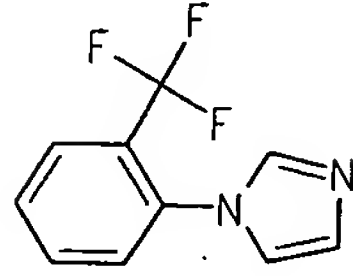
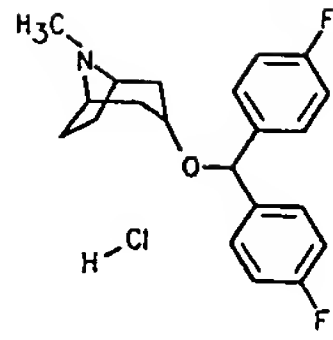


FIG. 17ccc

FIG. 17ddd

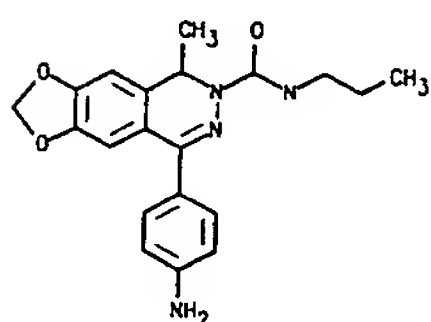
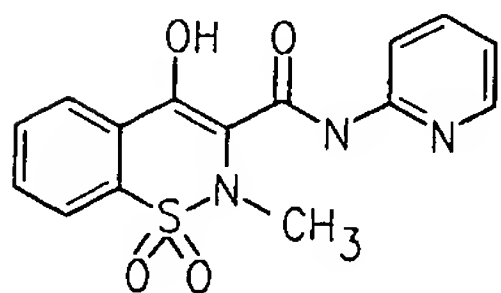
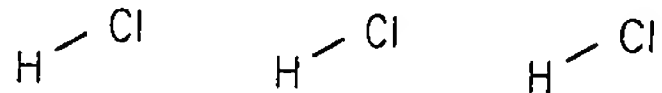
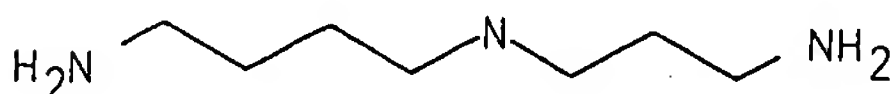
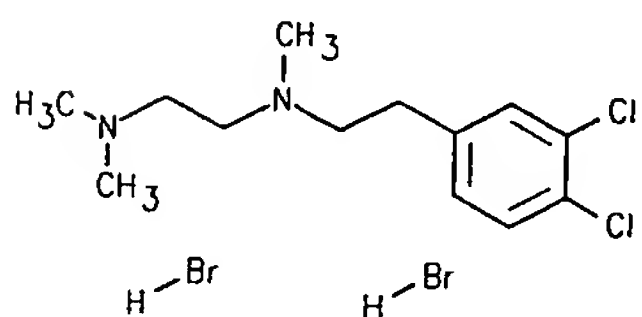
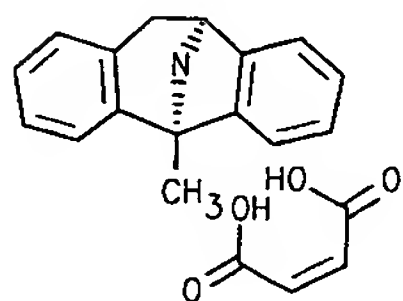
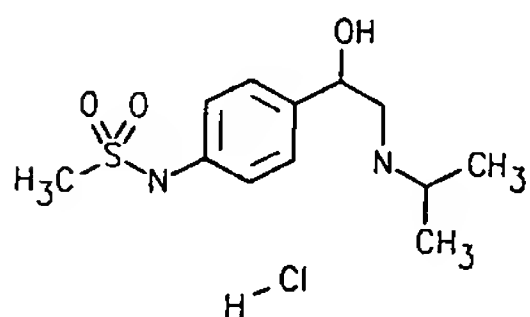
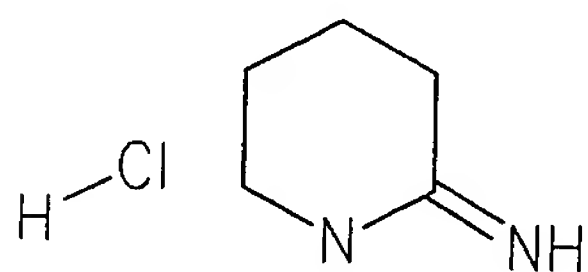
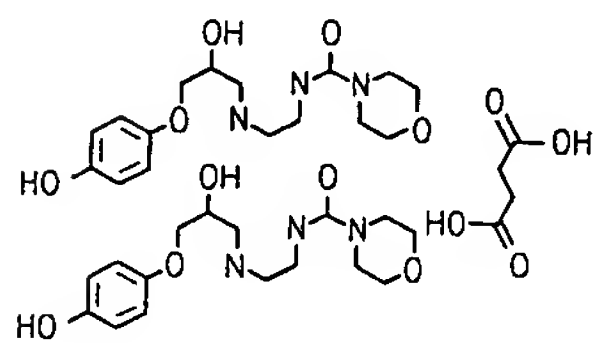
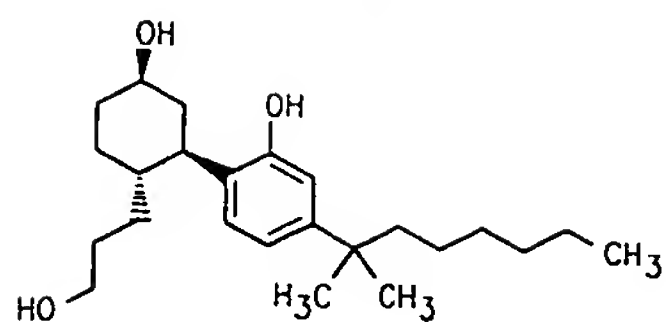


FIG. 17eee

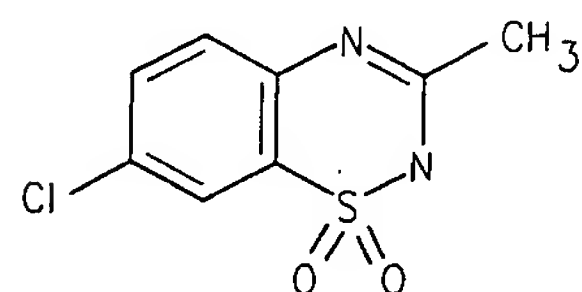
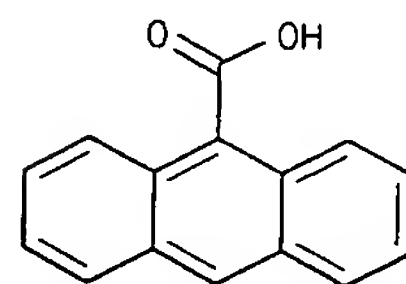
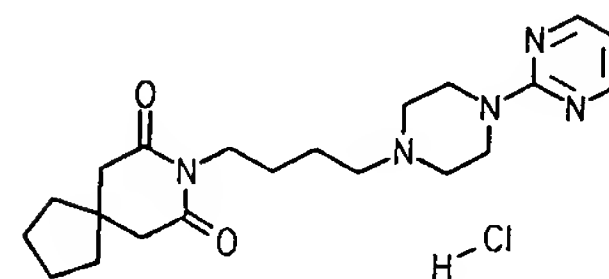
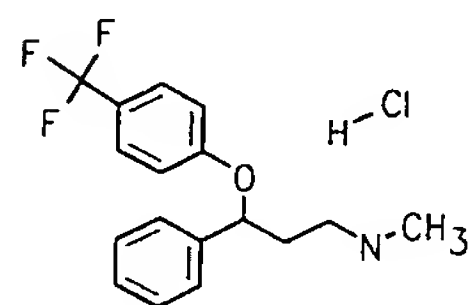
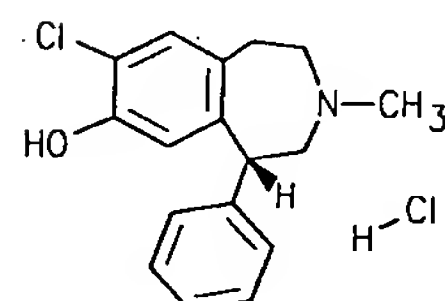
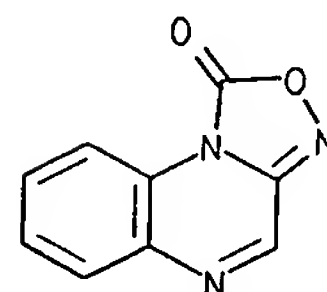
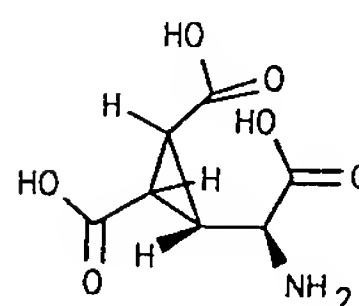
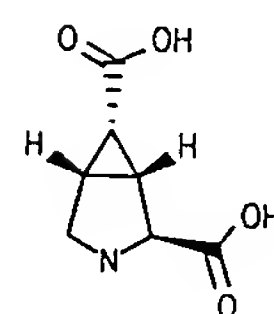
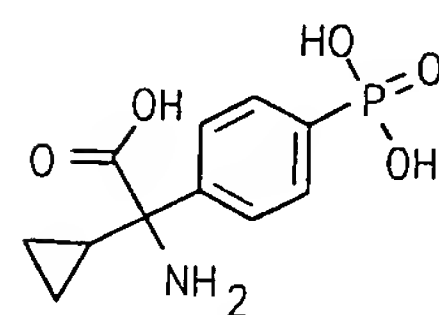
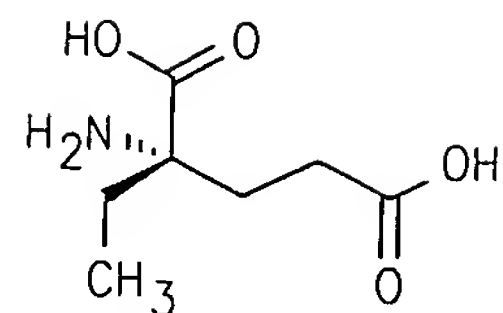


FIG. 17fff

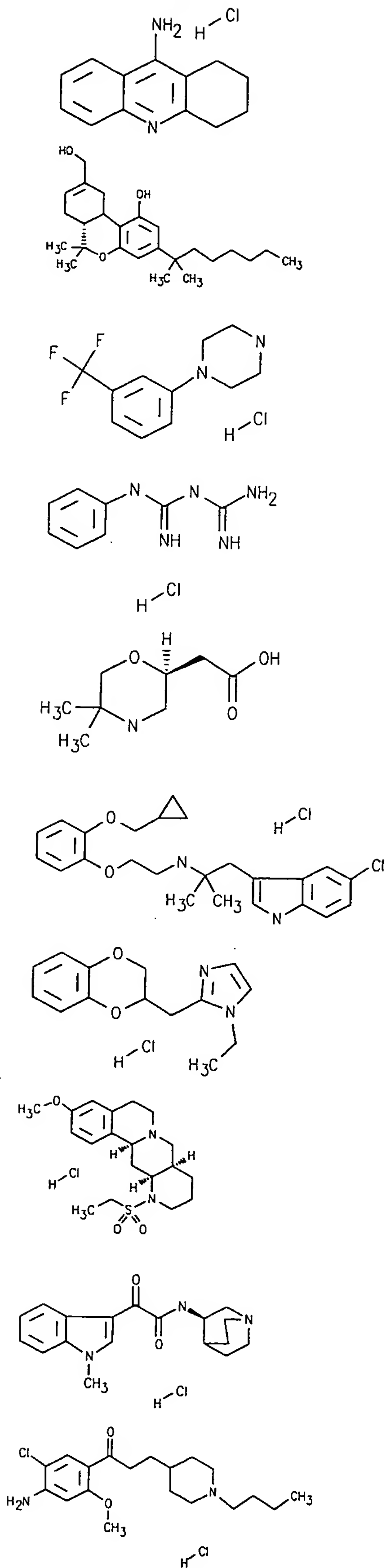


FIG. 17ggg

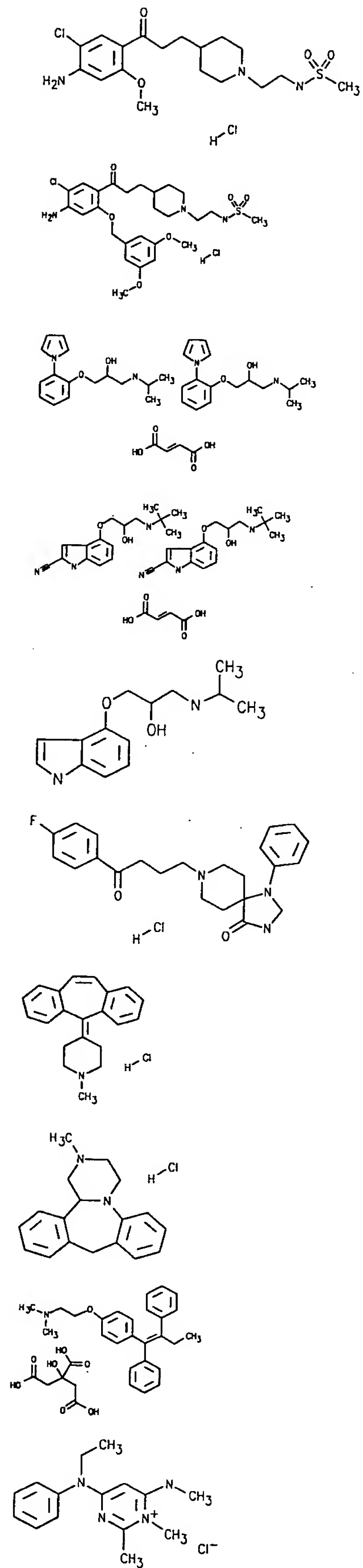


FIG. 17hhh

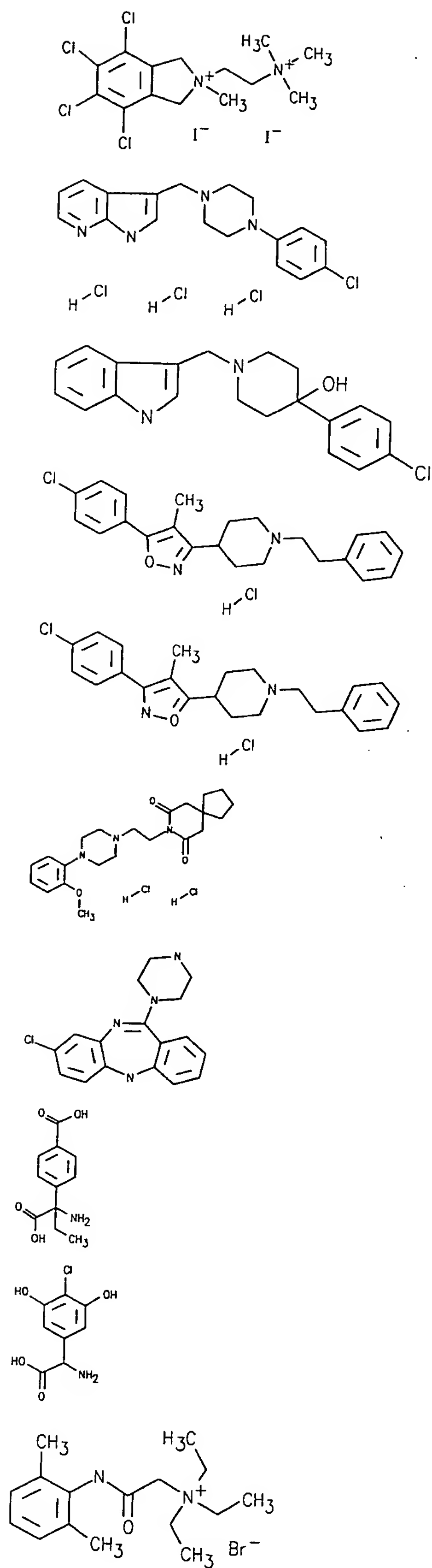


FIG. 17iii

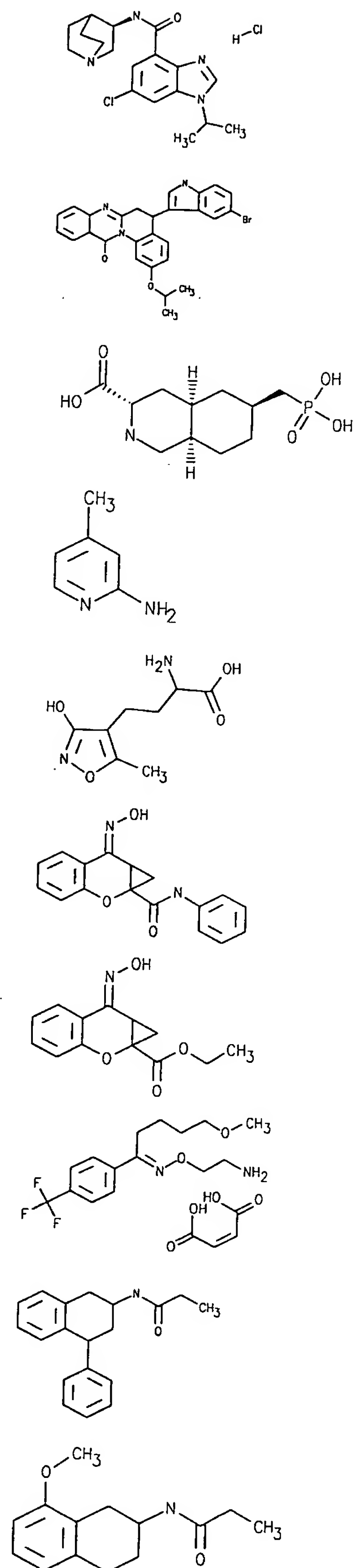


FIG. 17jjj

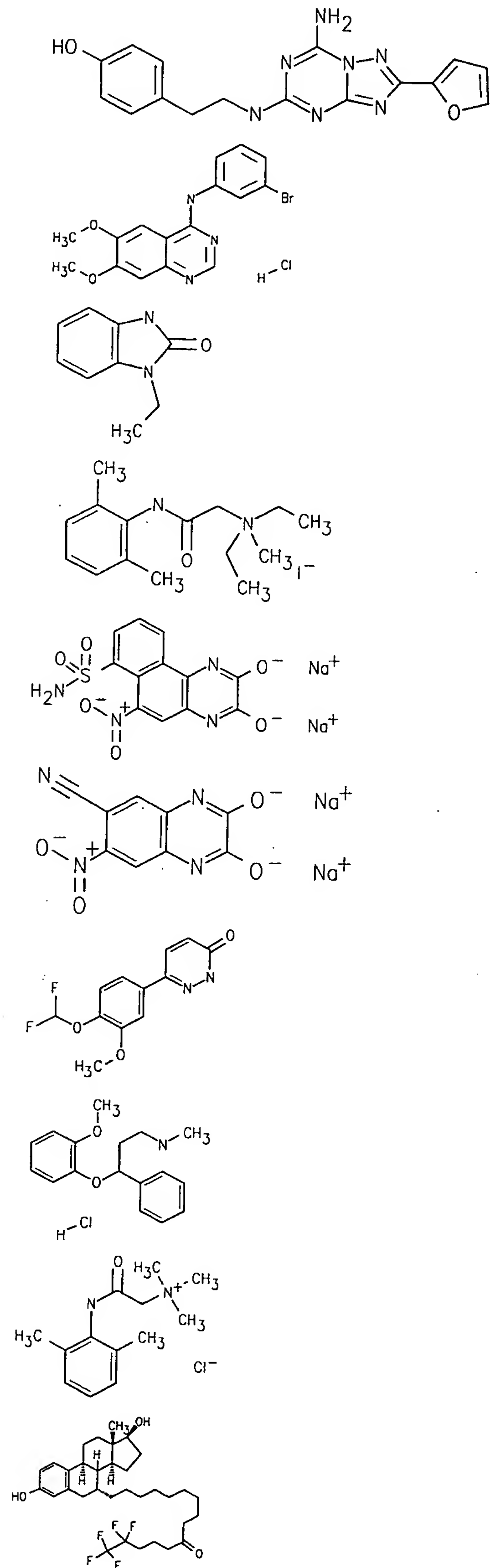


FIG. 17kkk

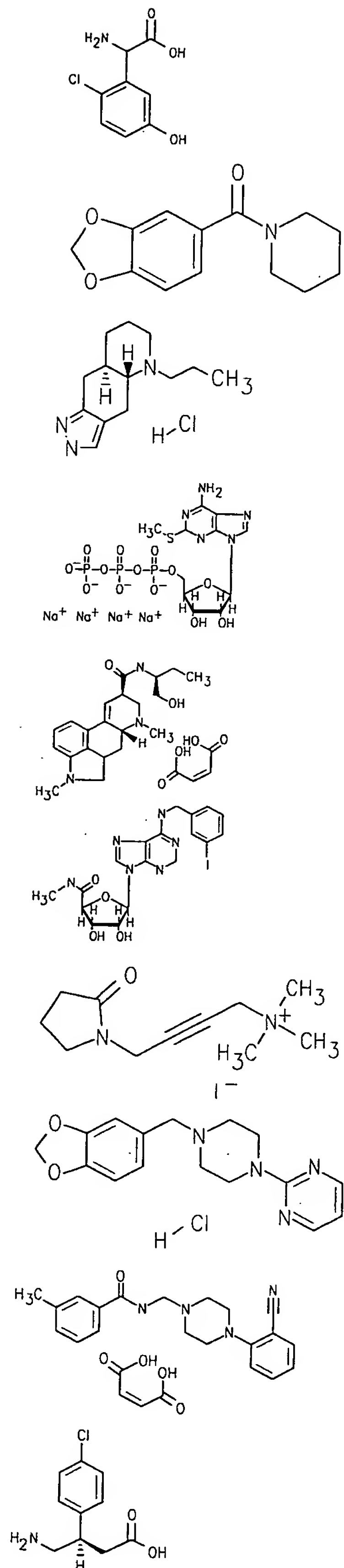


FIG. 17lll

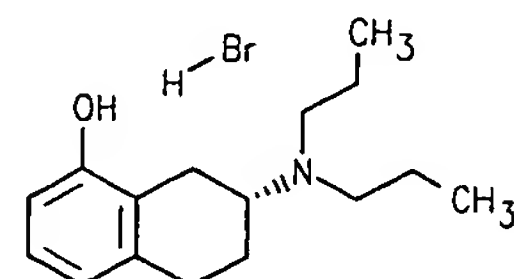
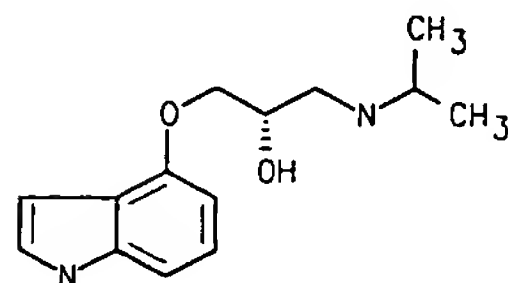
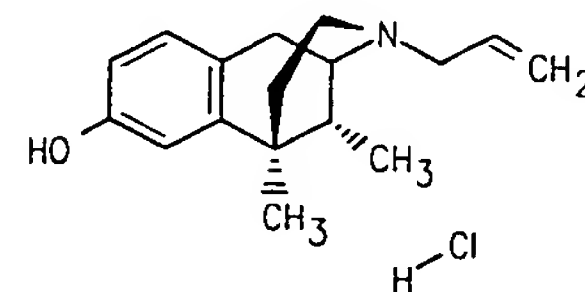
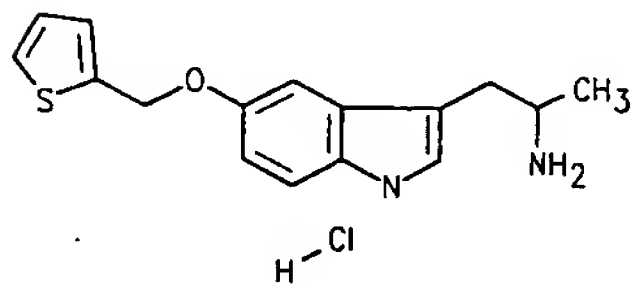
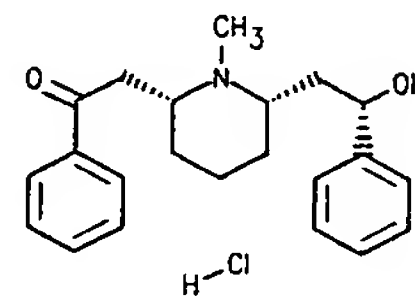
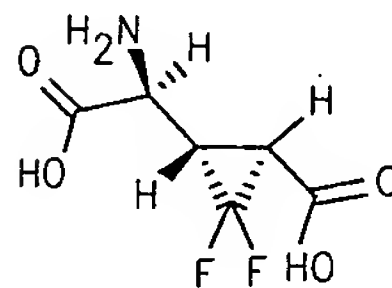
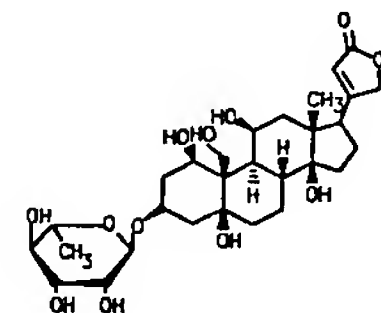
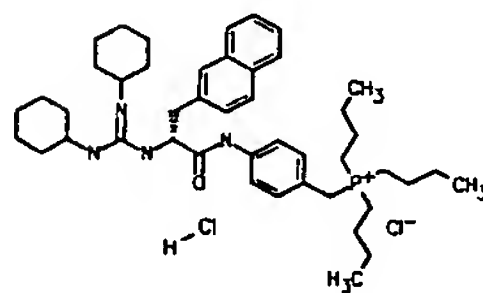
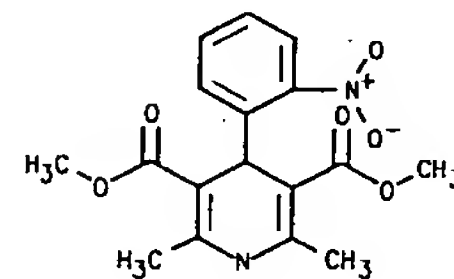
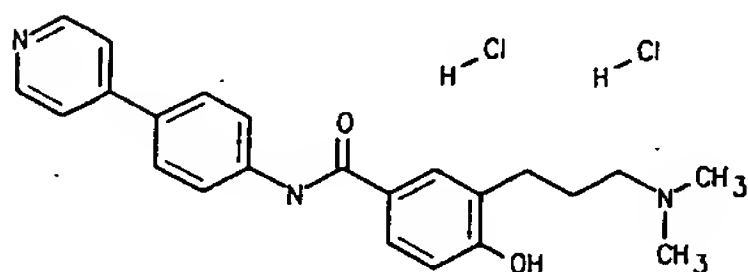
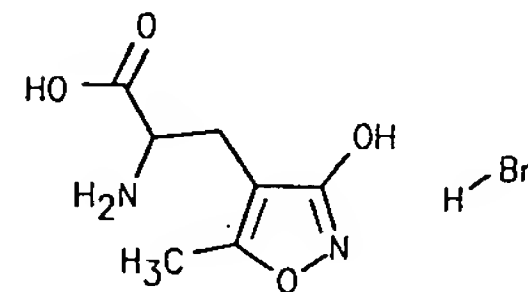
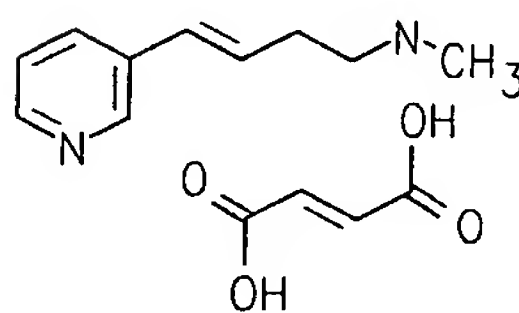
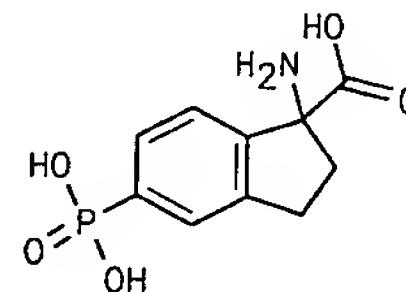
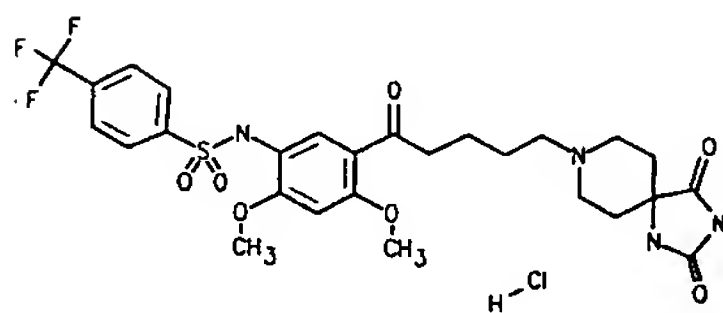
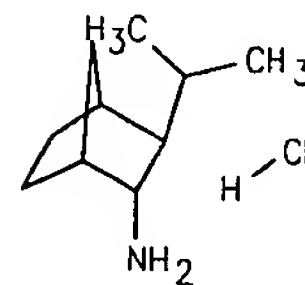
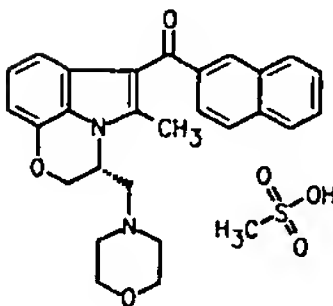
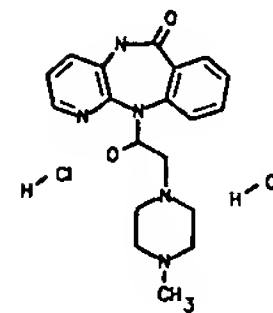
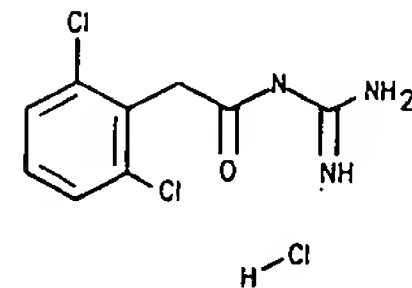
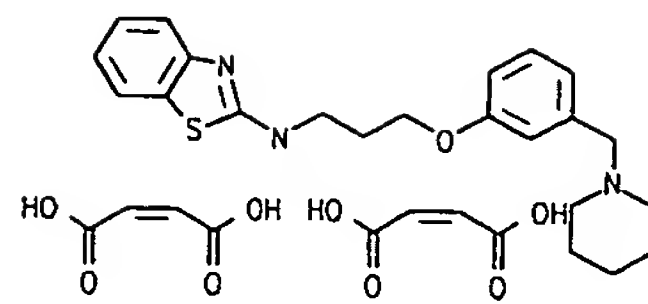
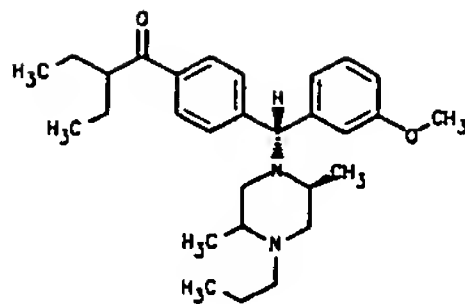


FIG. 17mmm

FIG. 17nnn

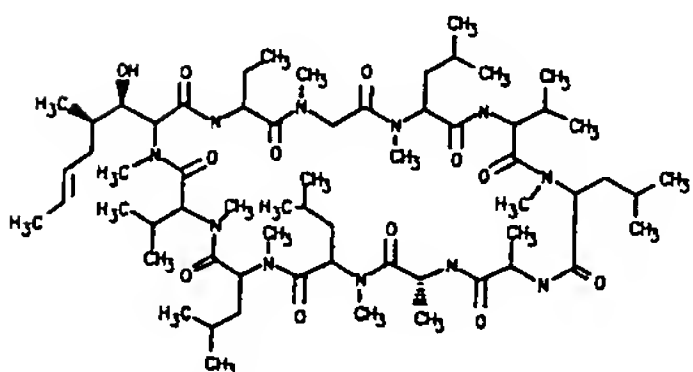
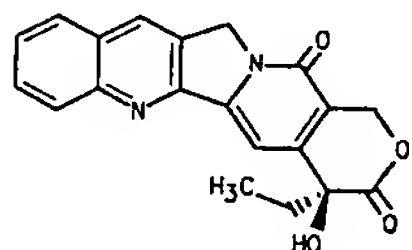
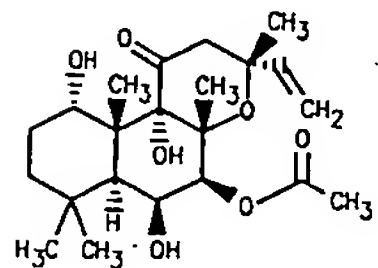
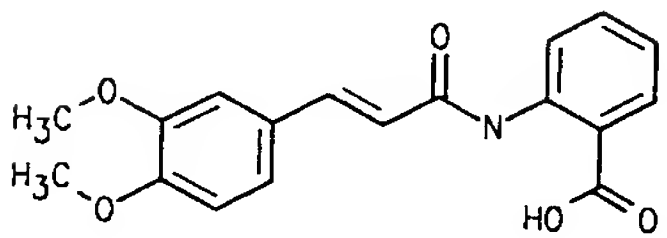
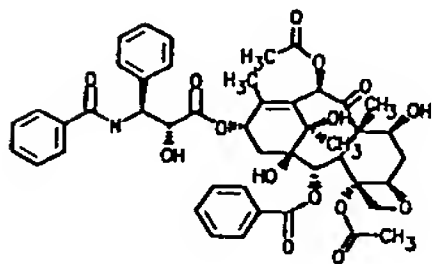
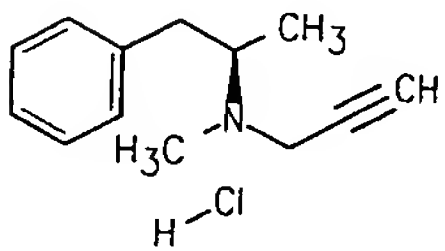
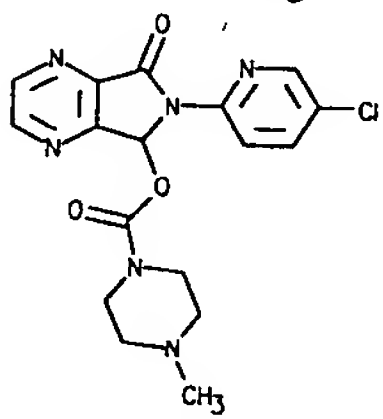
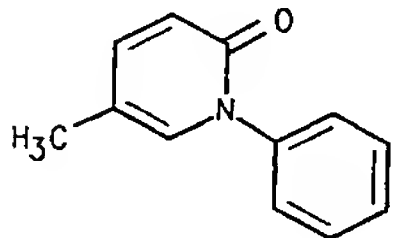
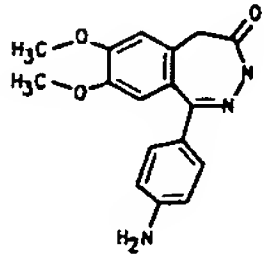
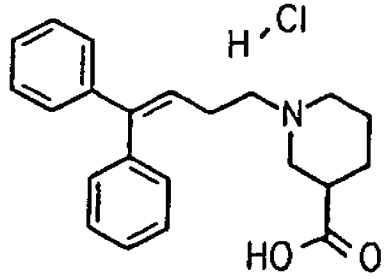


FIG. 17ooo

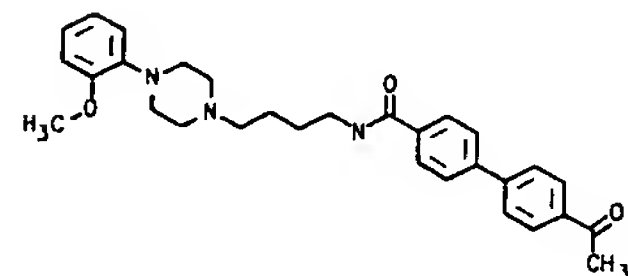
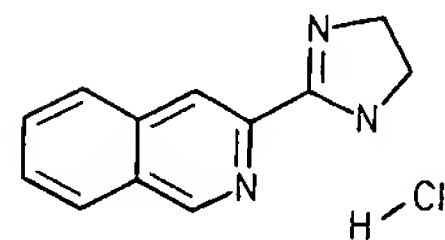
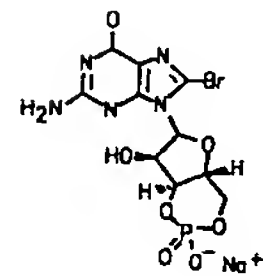
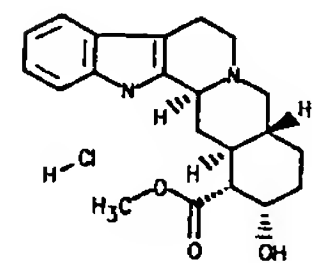
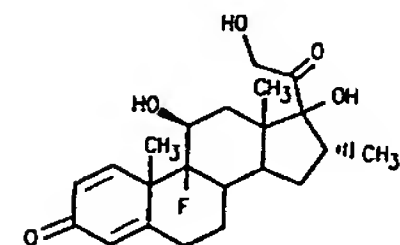
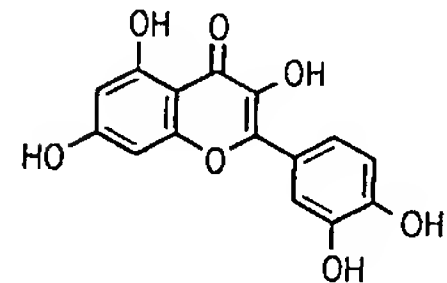
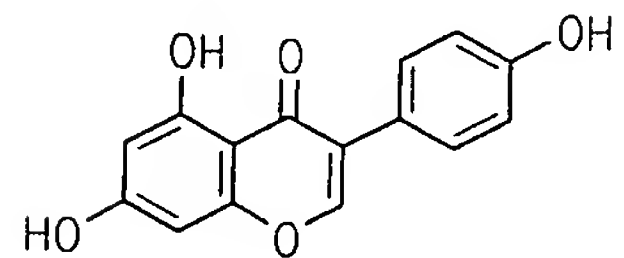
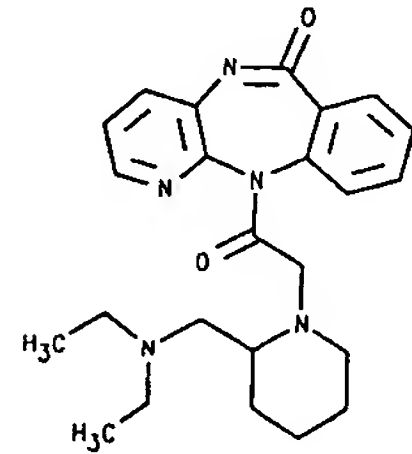
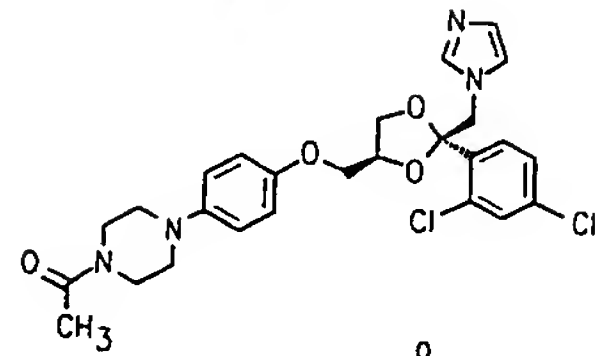
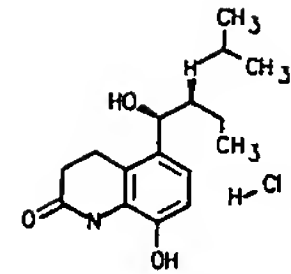


FIG. 17ppp

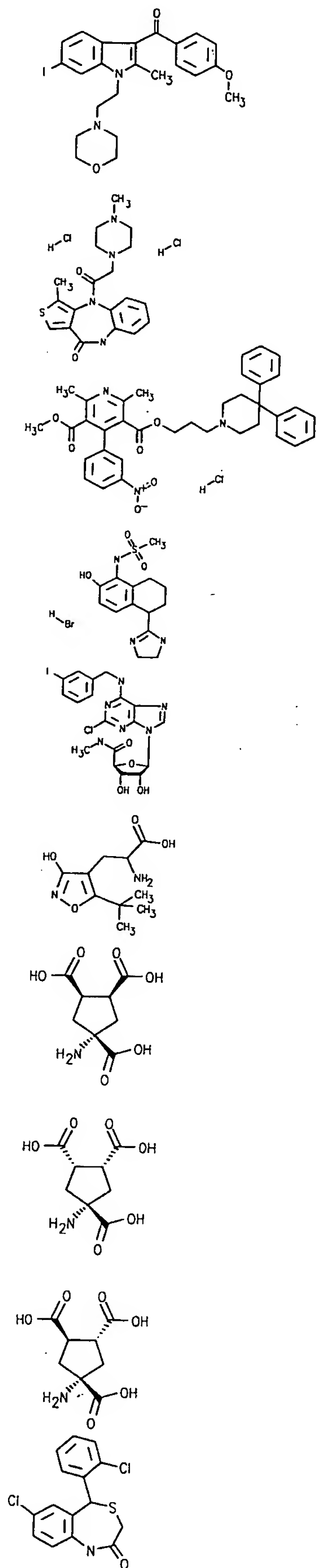


FIG. 17qqq

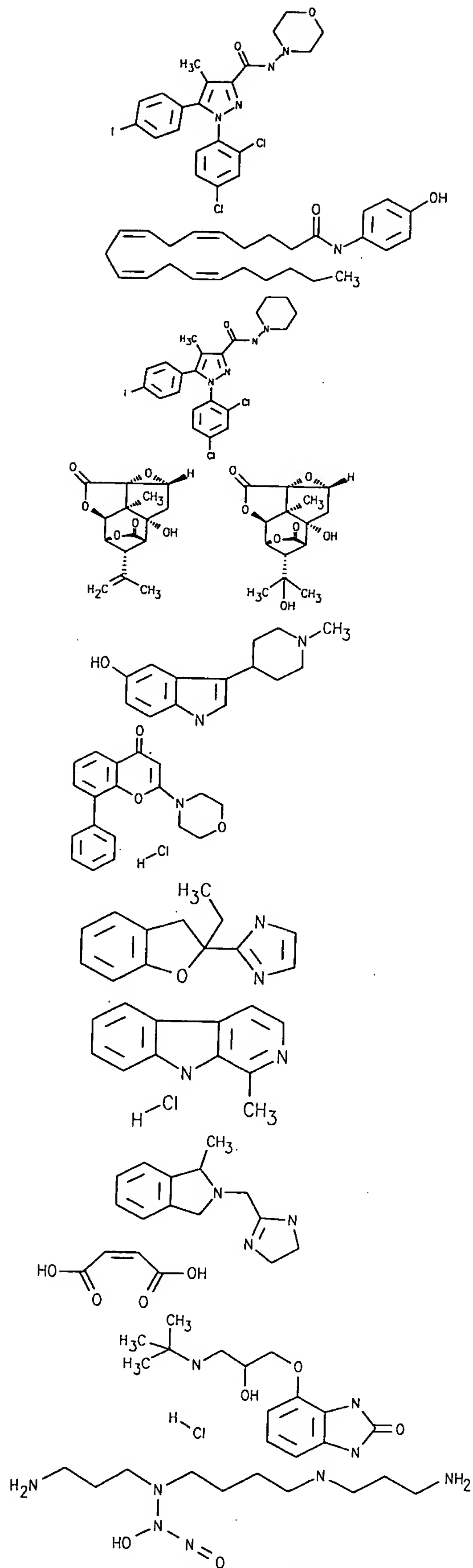


FIG. 17rrr

FIG. 17ttt

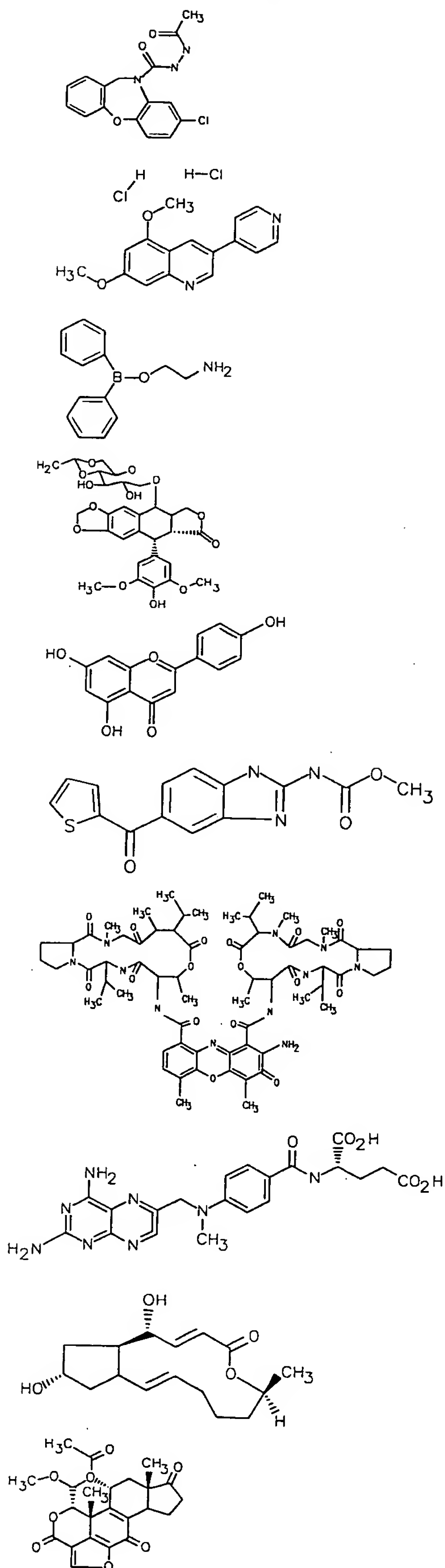


FIG. 17uuu

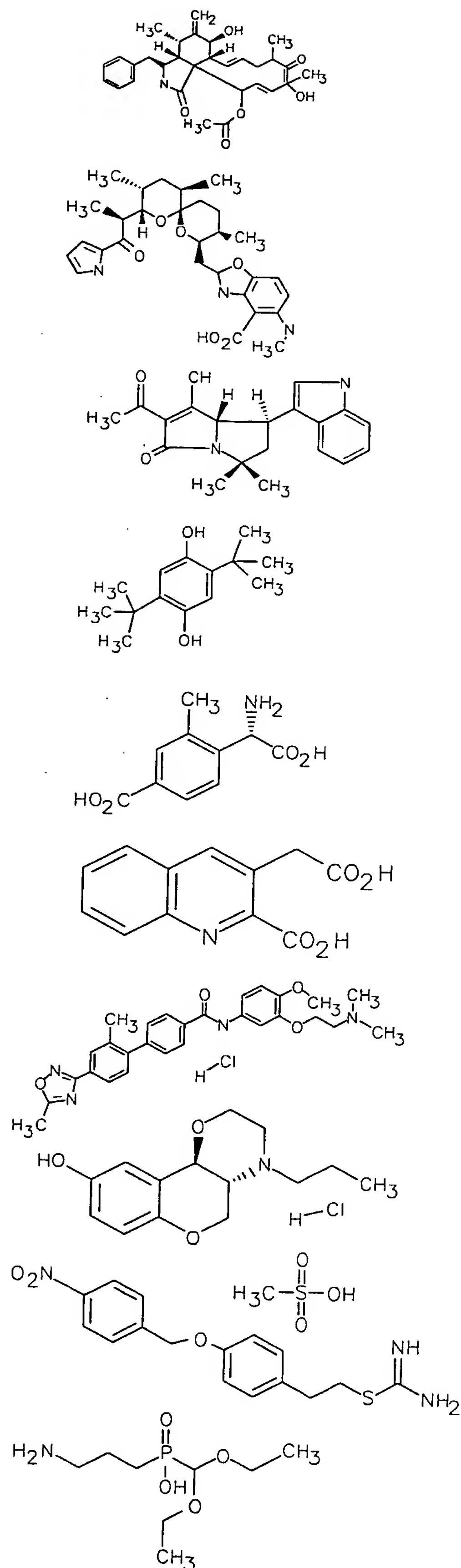


FIG. 17vvv

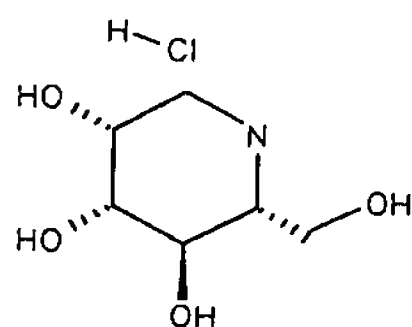
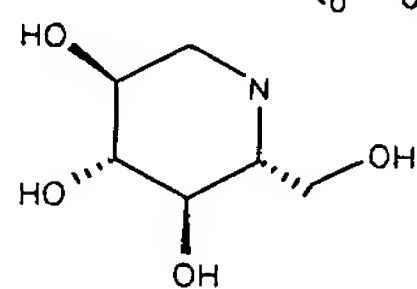
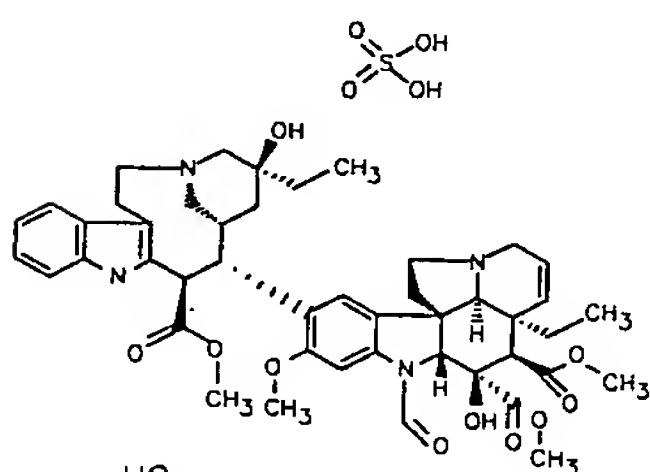
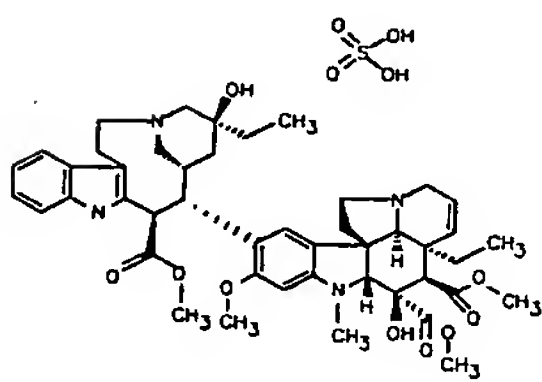
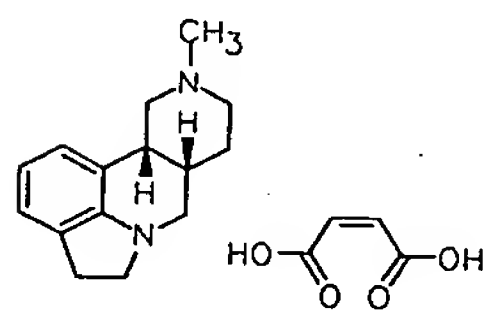
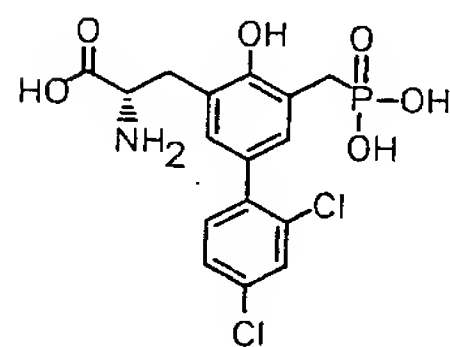
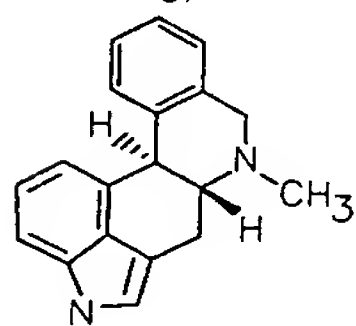
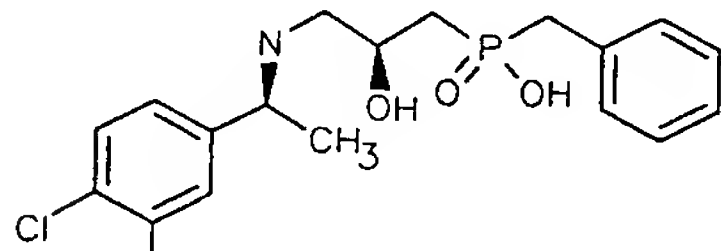
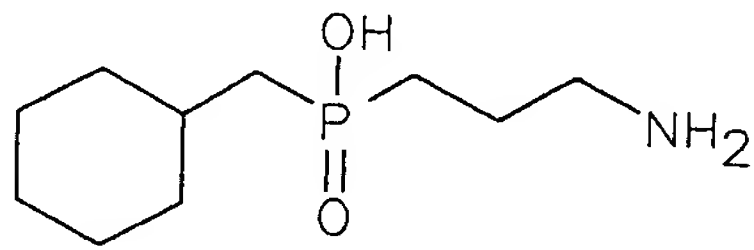
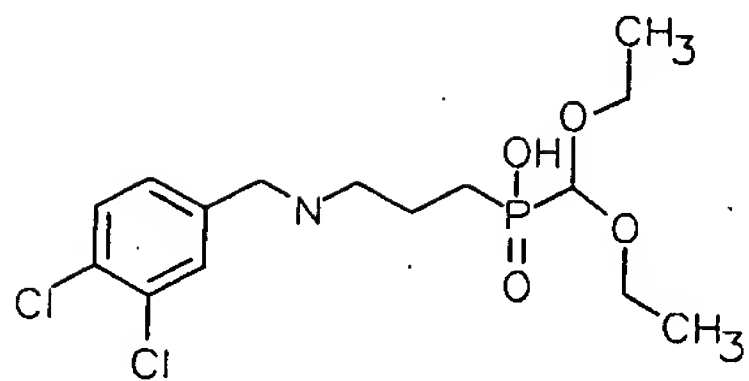


FIG. 17www

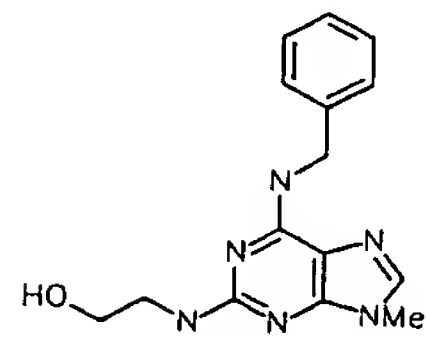
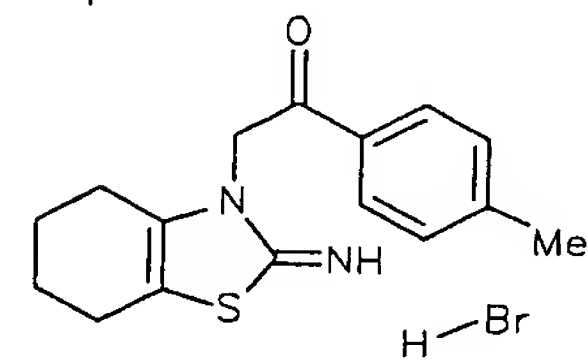
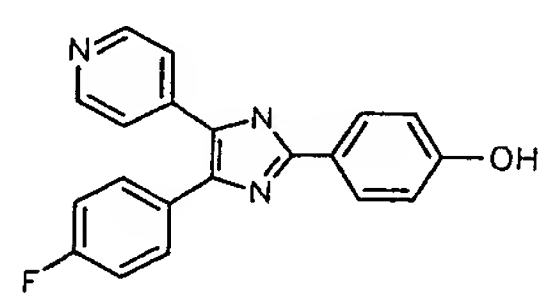
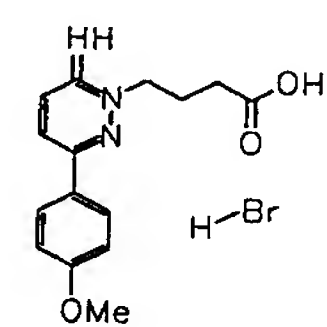
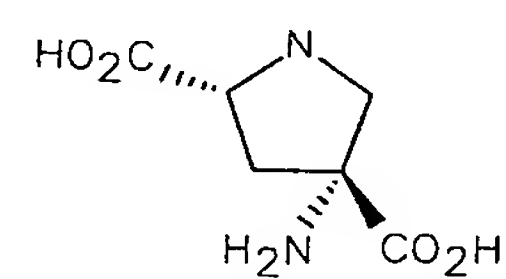
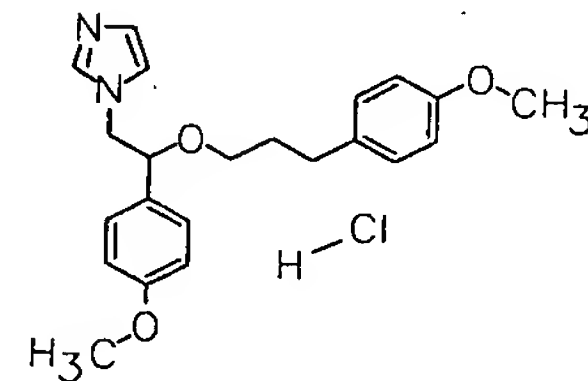
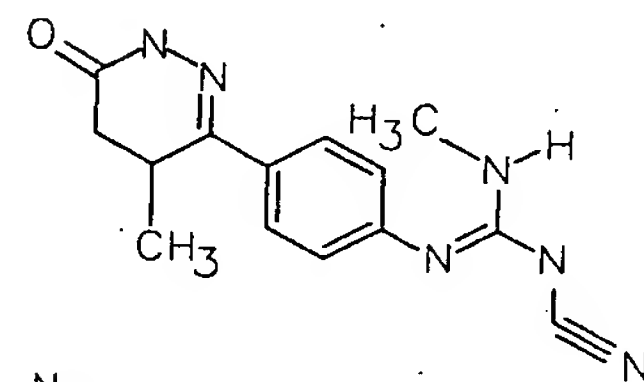
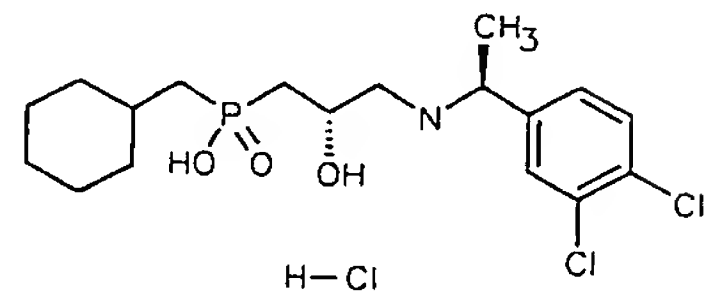
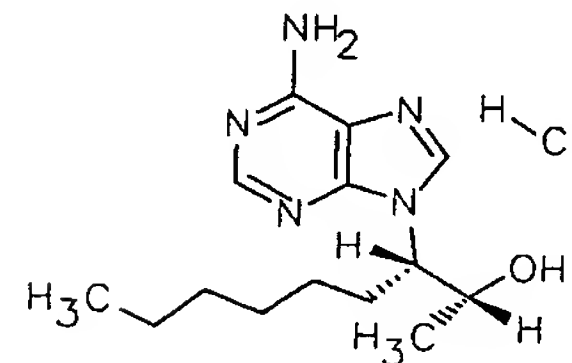
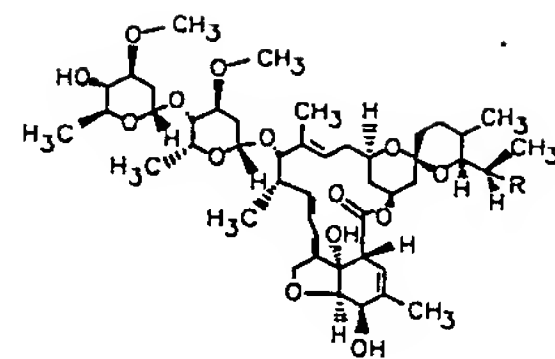


FIG. 17xxx

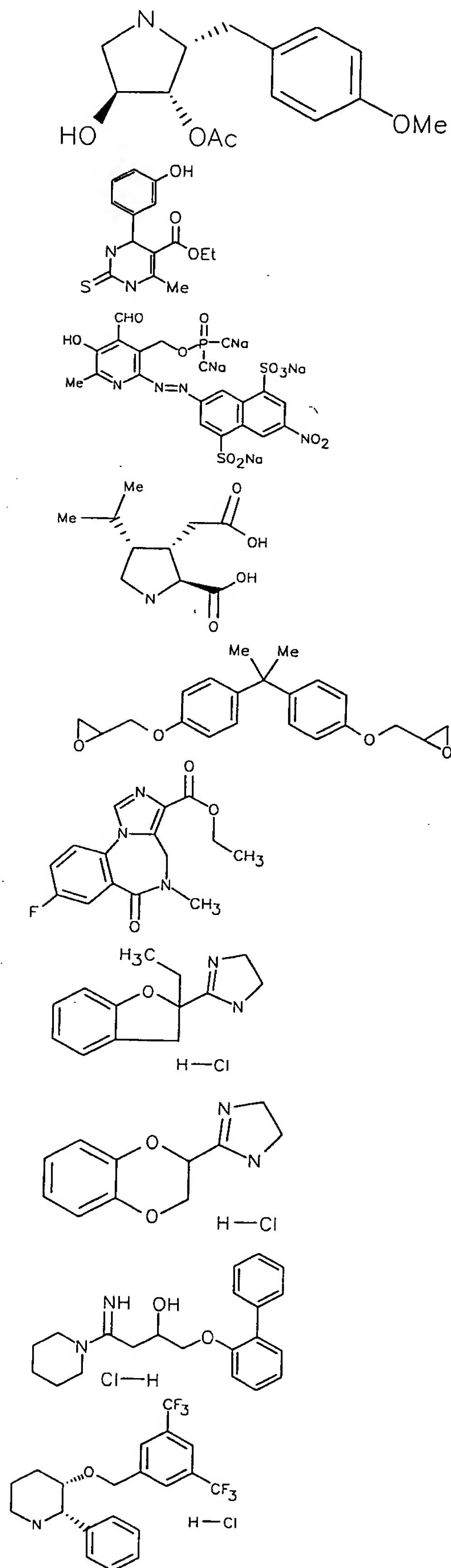


FIG. 17yyy

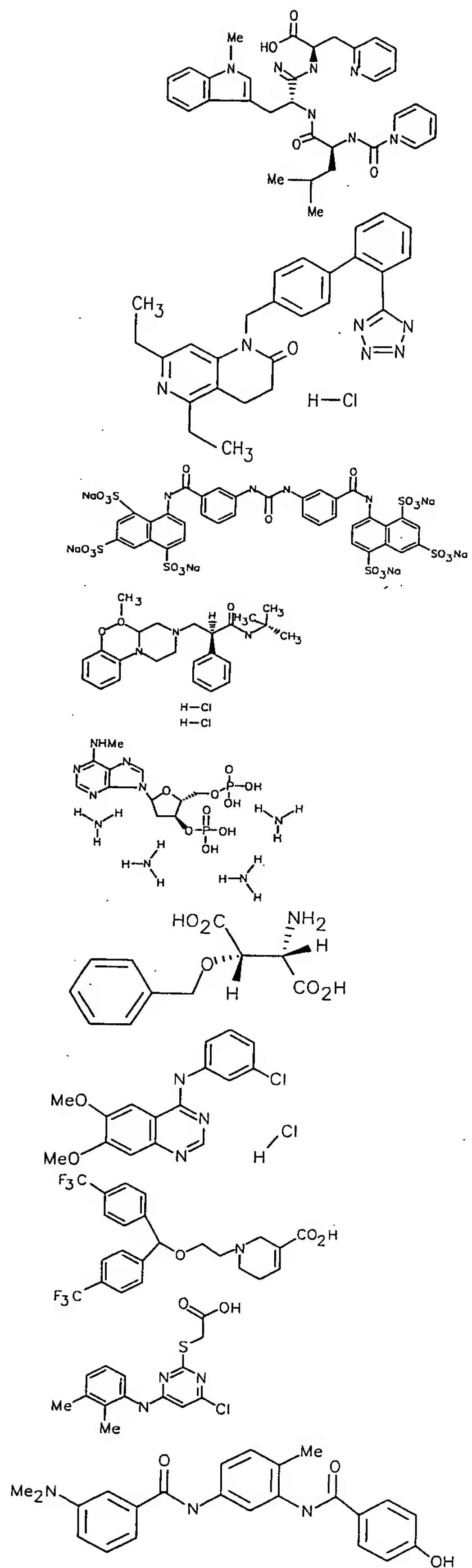


FIG. 17zzz

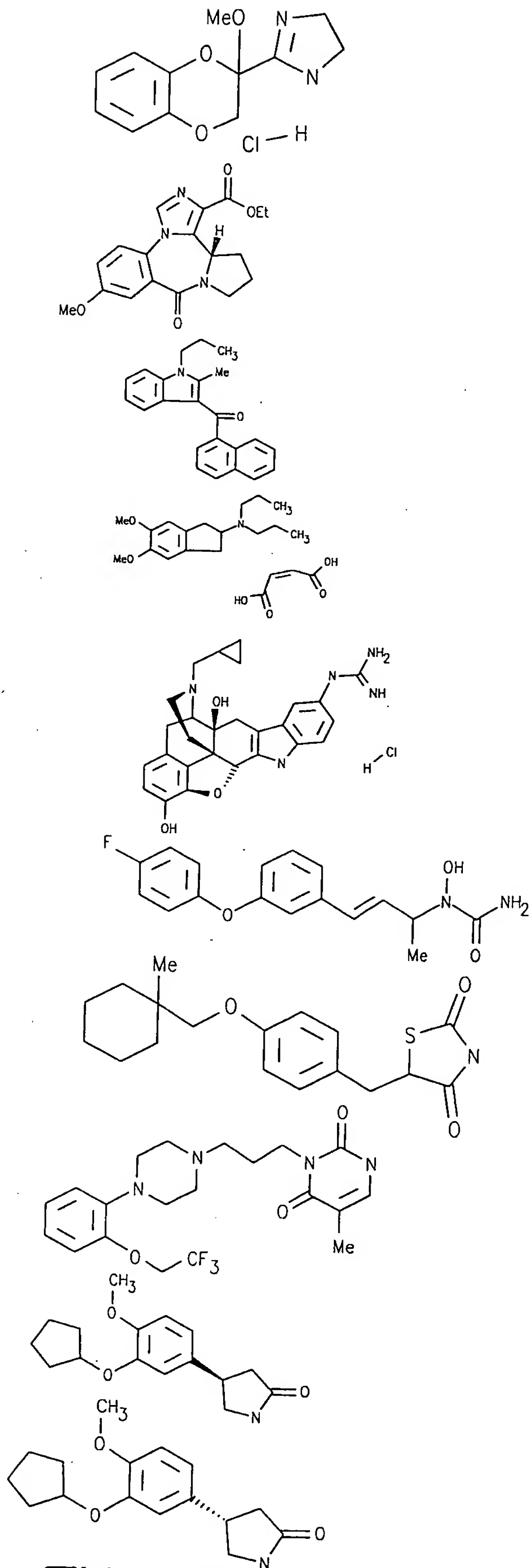


FIG. 17aaaa

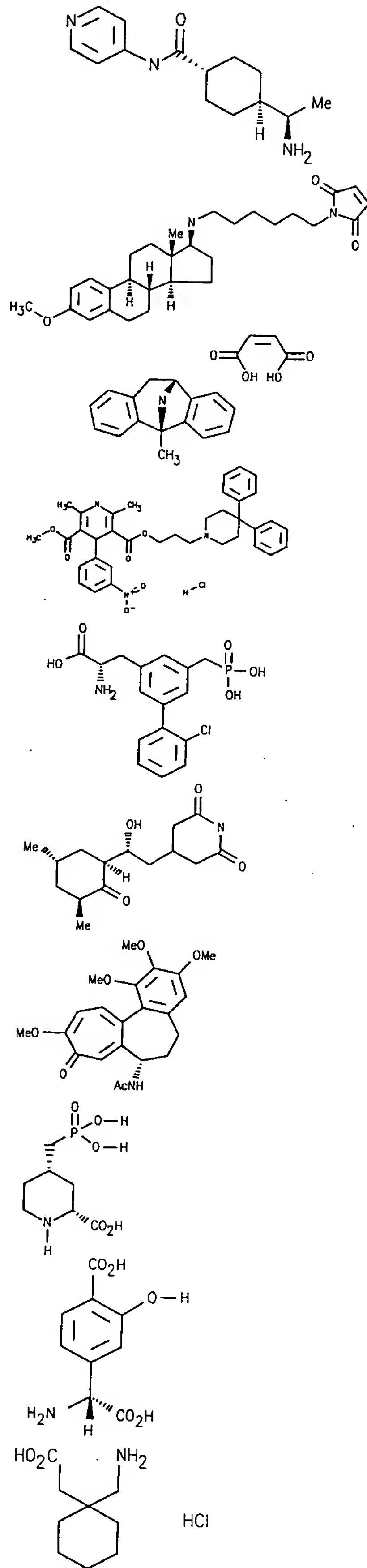


FIG. 17bbbb

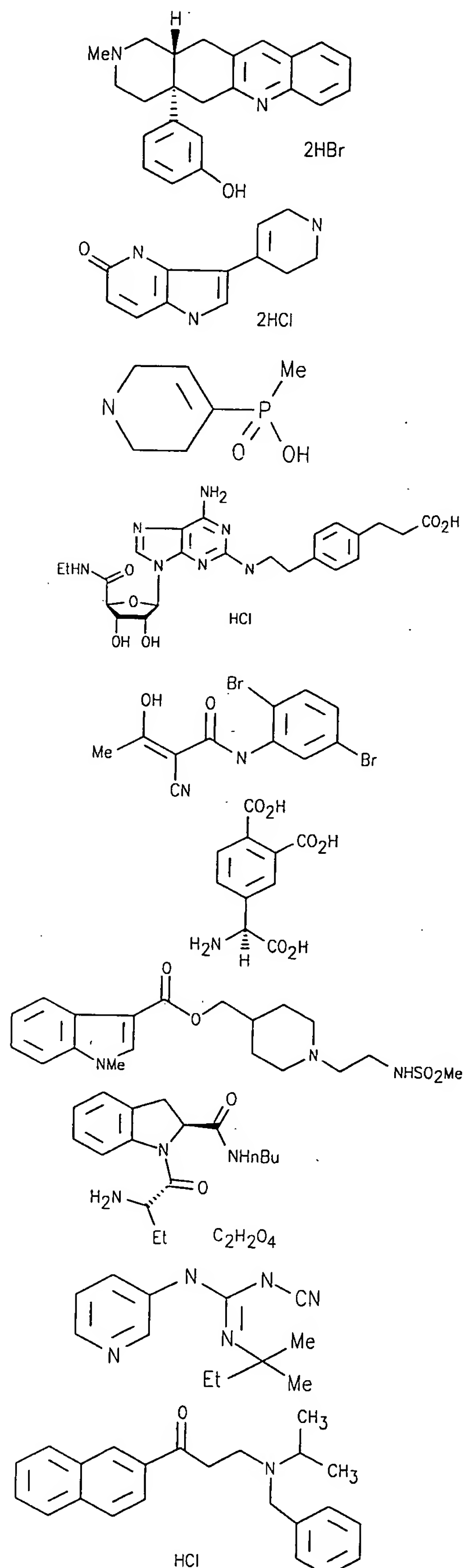


FIG. 17cccc

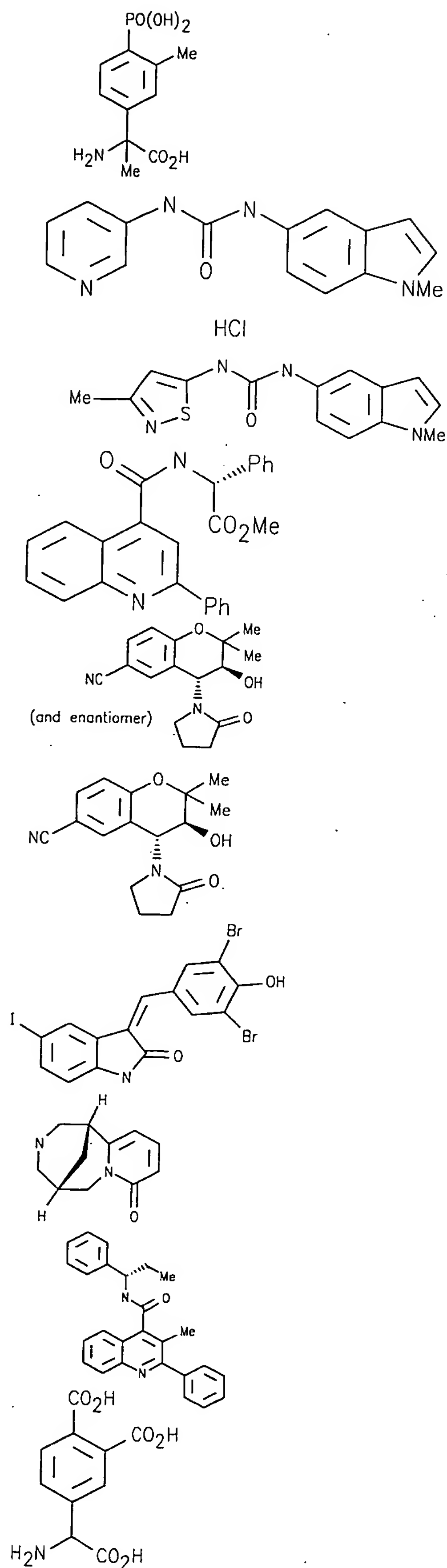


FIG. 17d

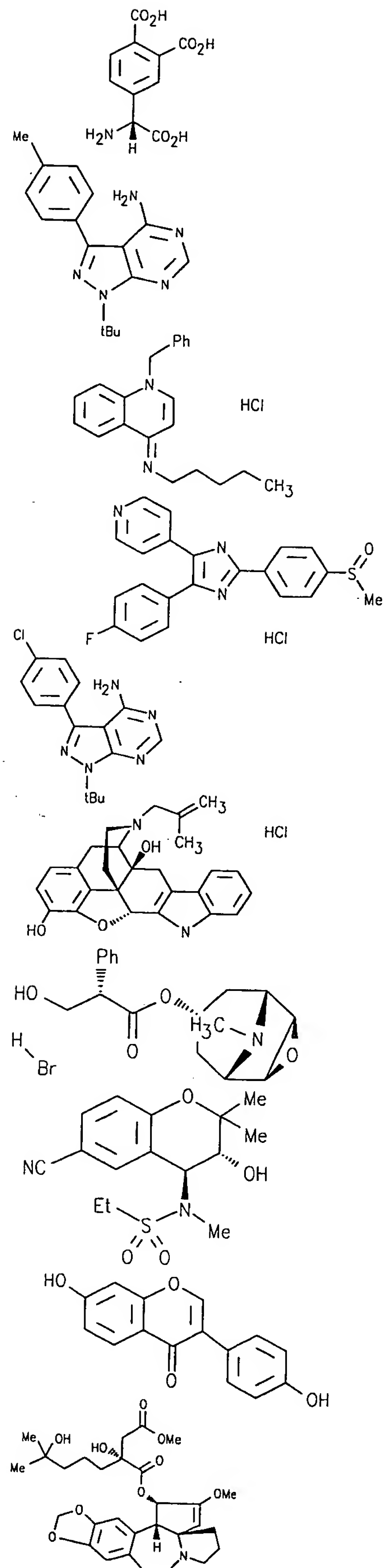


FIG. 17e

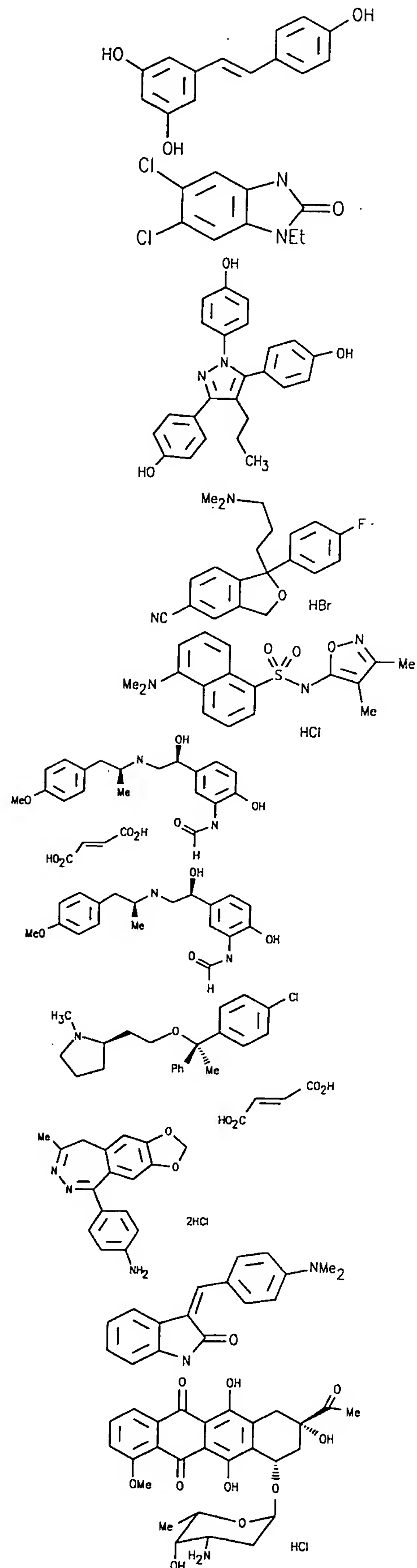


FIG. 17ffff

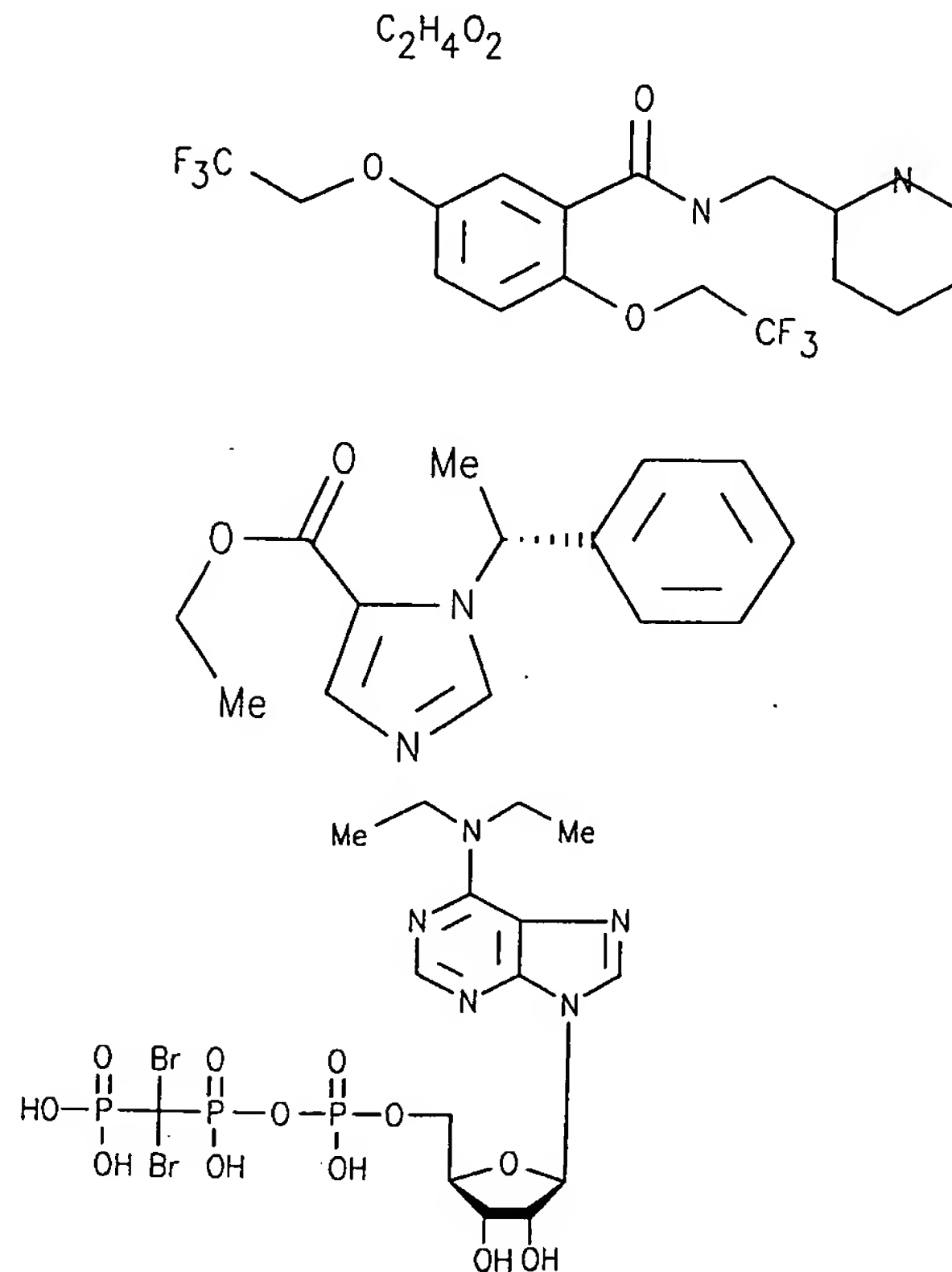


FIG. 17gggg

PEPTIDES AND ANTIBODIES PROBES FOR CENTRAL NERVOUS SYSTEM DISEASES

β -Amyloid Precursor Protein
 β -Secretase Inhibitor III
 γ -Secretase Inhibitor XII
(\pm)-Ibuprofen
(S)-(+)-Ibuprofen
Anti- β -Amyloid(1-43)
Anti-BACE1, C-Terminal(485-501)
Anti-Nicastrin, C-Terminal
Anti-Nicastrin, N-Terminal
Anti-Reelin

PEPTIDES FOR ANGIOGENESIS

MT1-MMp Hemopexin Domain, His-Tag®, Human, Recombinant
MT2-MMp Hemopexin Domain, His-Tag®, Human, Recombinant
VEGF Inhibitor

FIG. 17hhhh

Points for Regulation of Various Metabolic Control Mechanisms

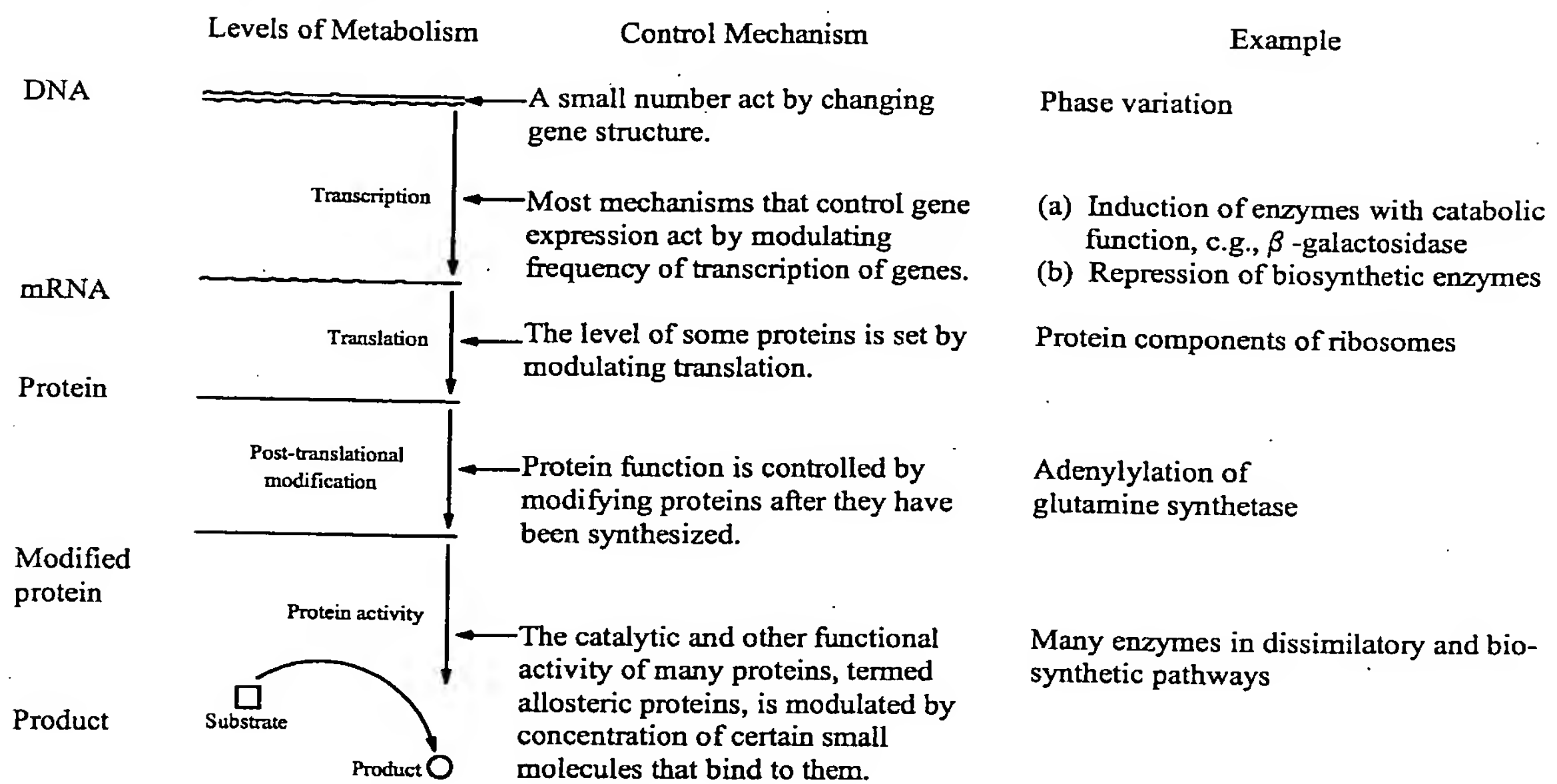
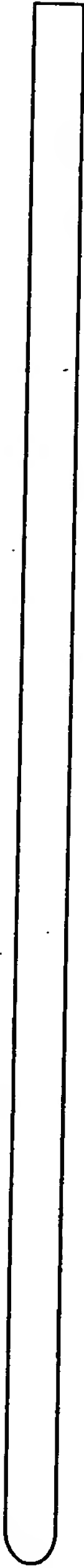


FIG. 18

From Tissue to Cellular Target



Multiple separations from a single patient
(Cytomation MoFlo High Speed Flow Cytometry)

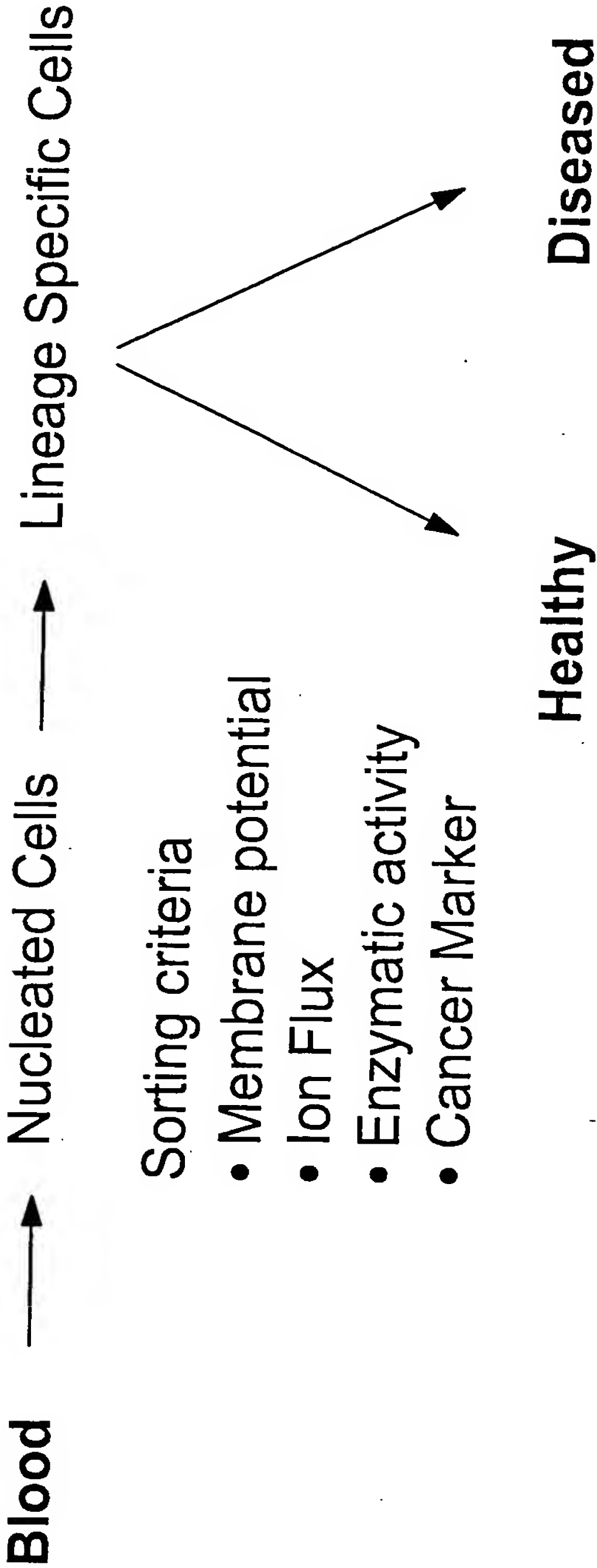
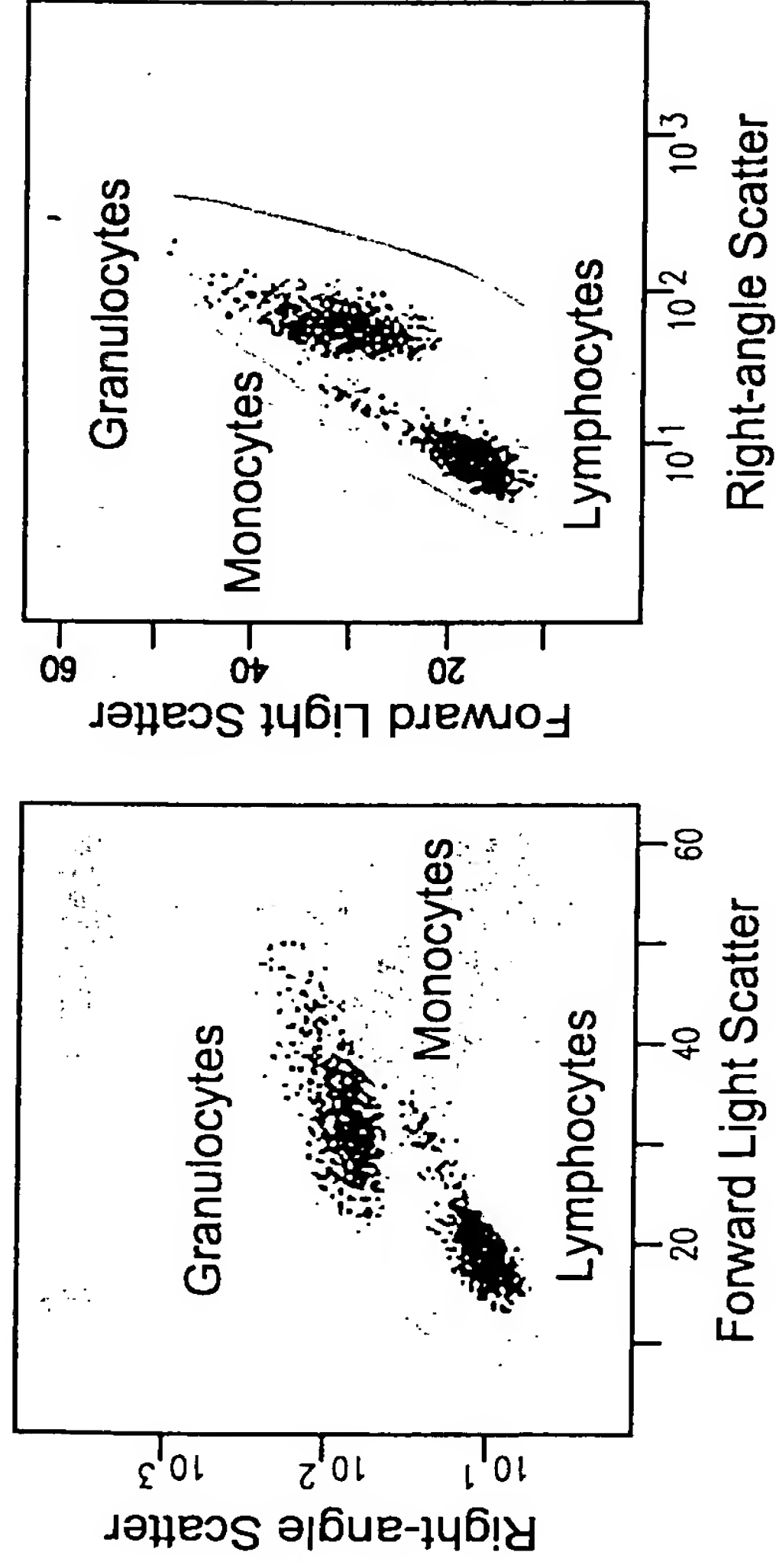


FIG. 19a



Sorting Cell Types From Blood



Cell types from peripheral blood cause light scatter in reproducible manners that allow separation without labeling

FIG. 19b

Cell Cycle Differences

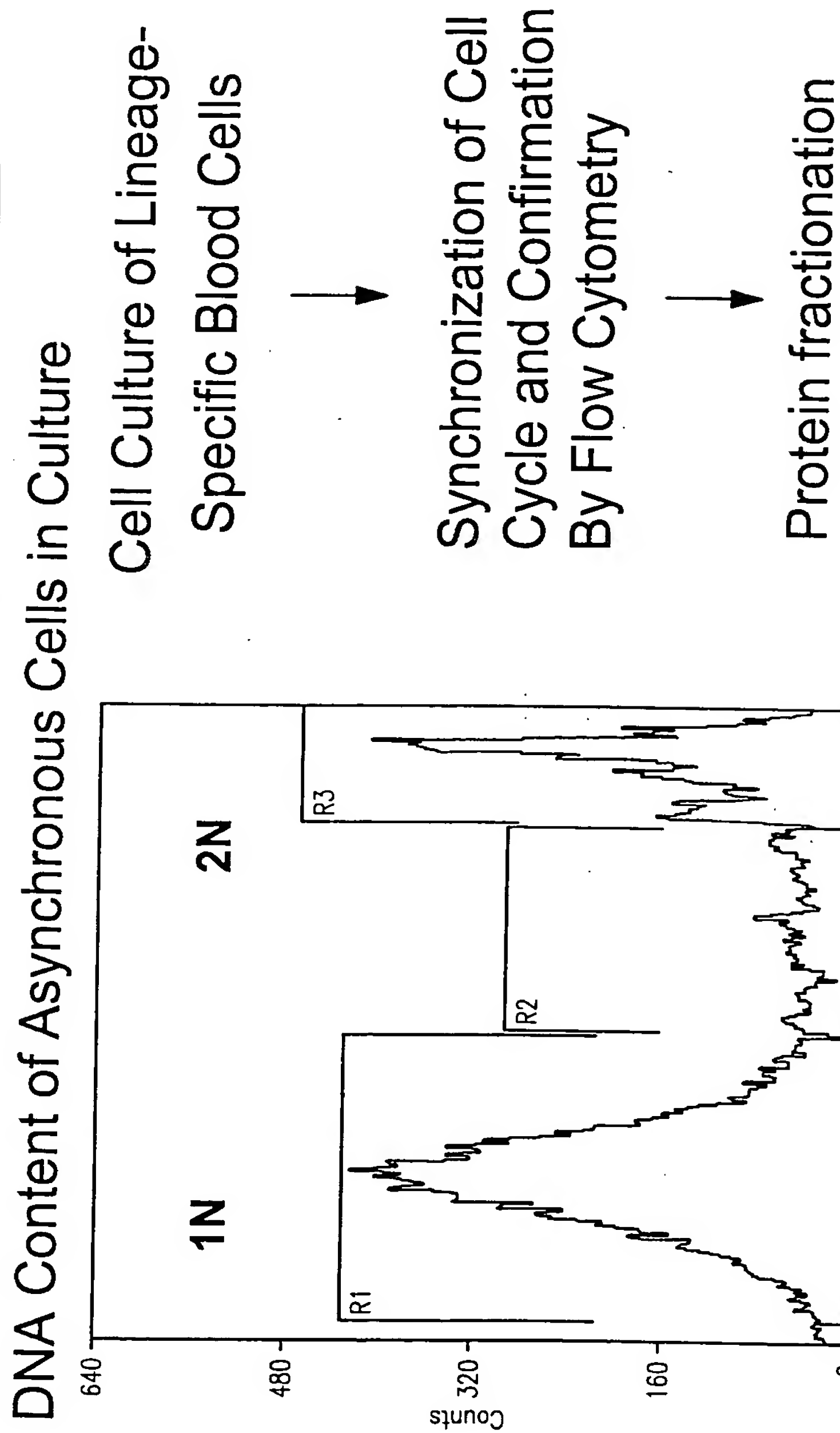


FIG. 19c

Schematic of Biomolecule Capture Method

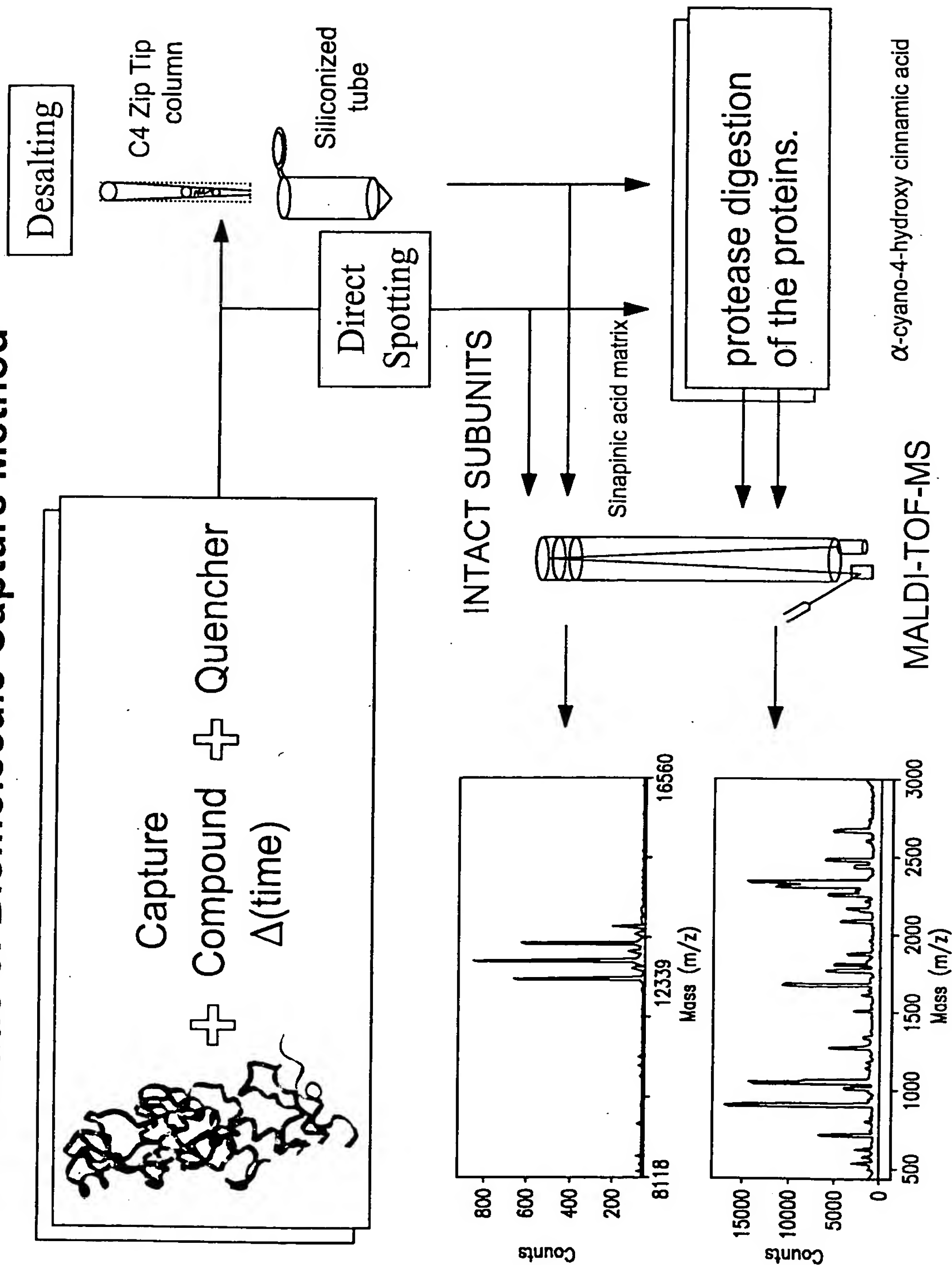
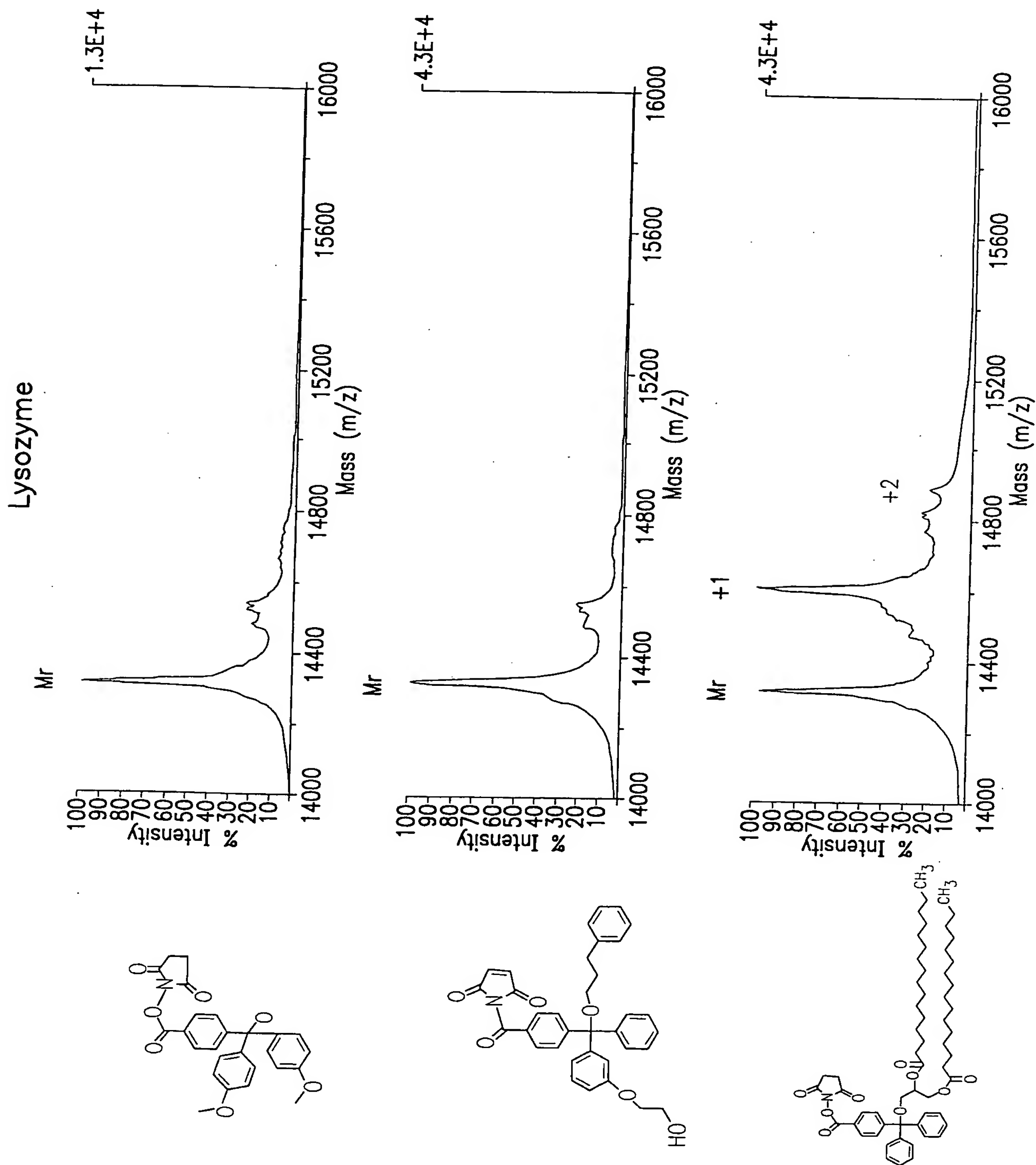


FIG. 20a



Cytochrome C

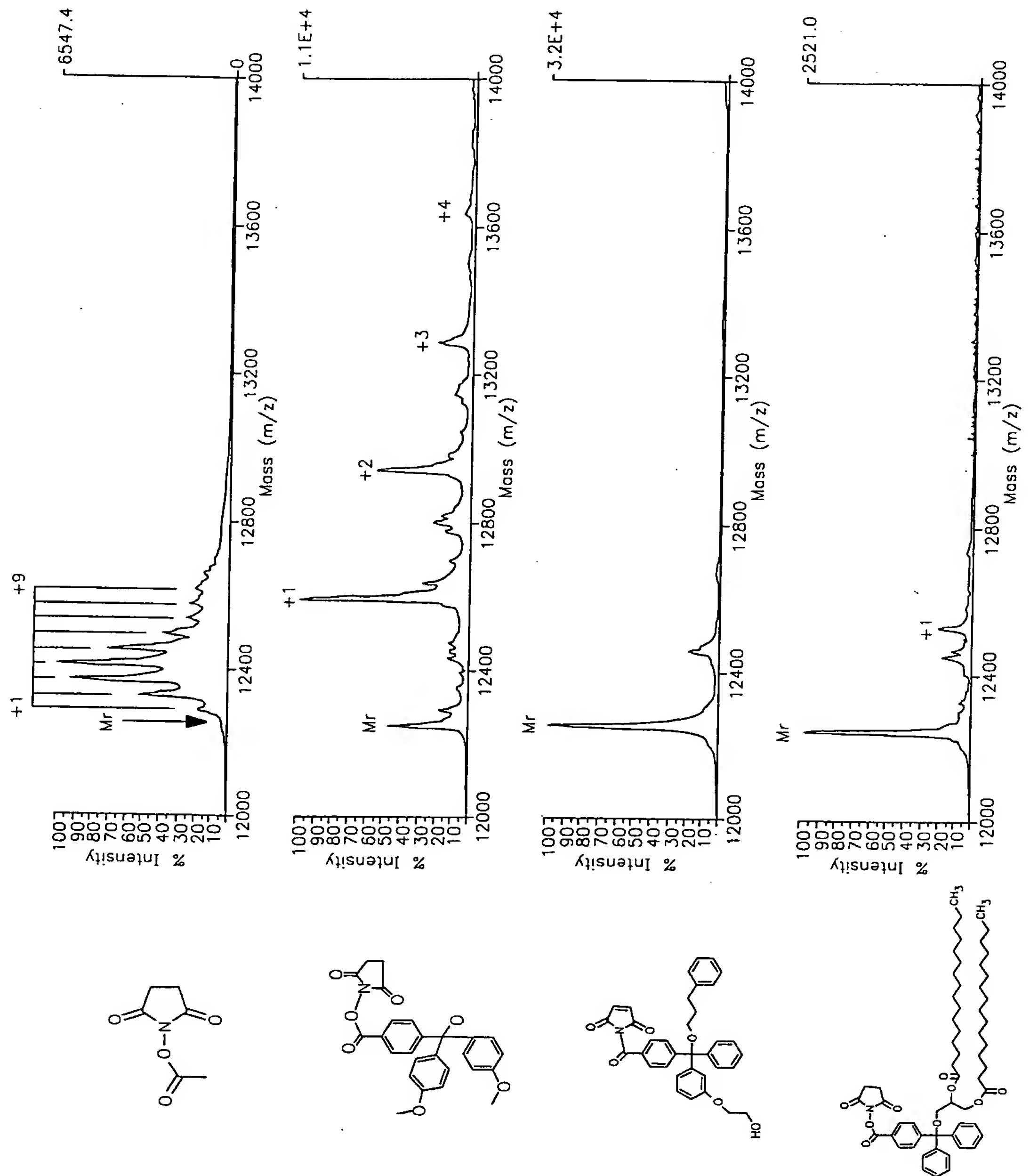
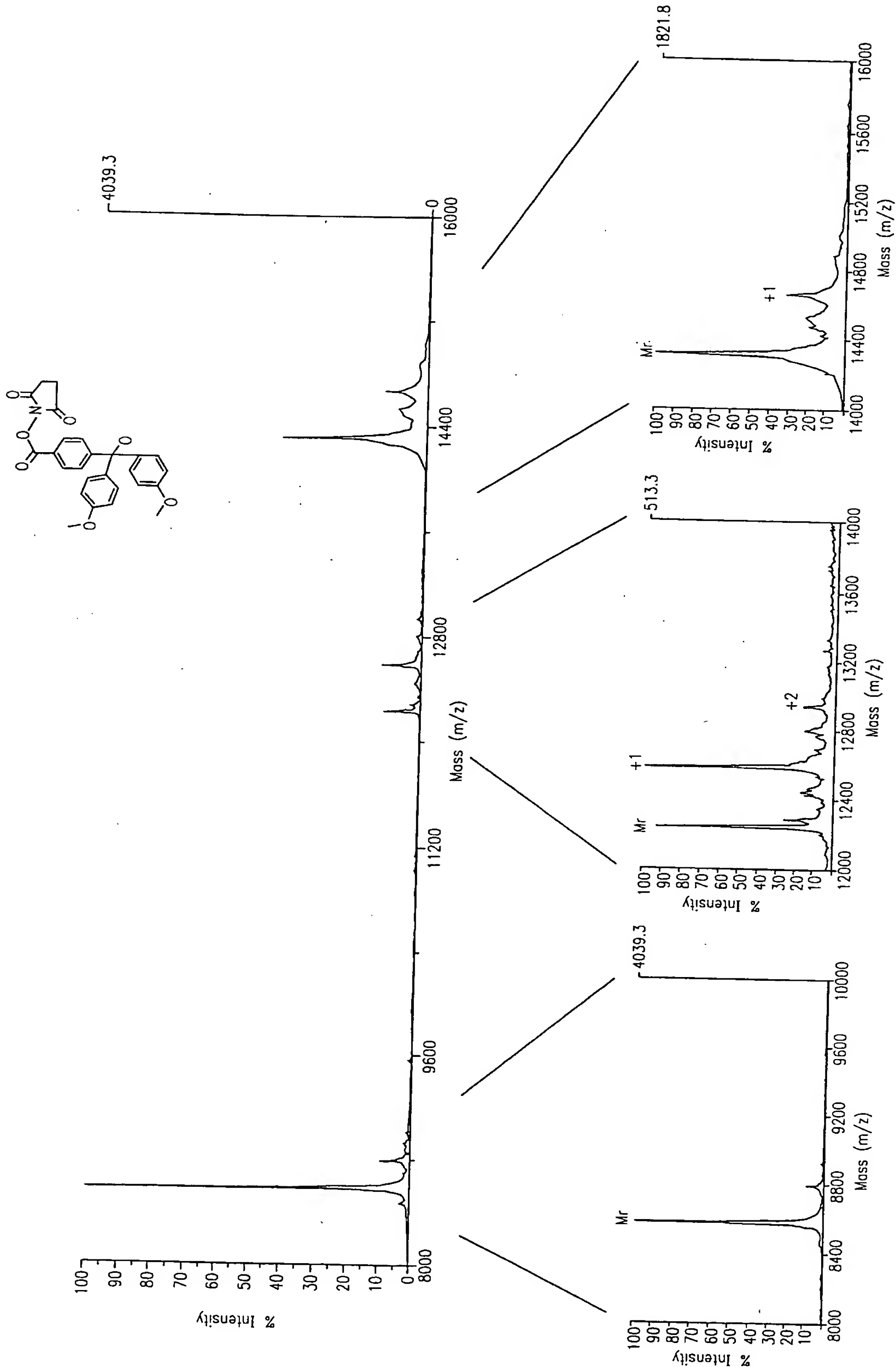


FIG. 20c



Ubiquitin

Cytochrome C

Lysozyme

FIG. 20d

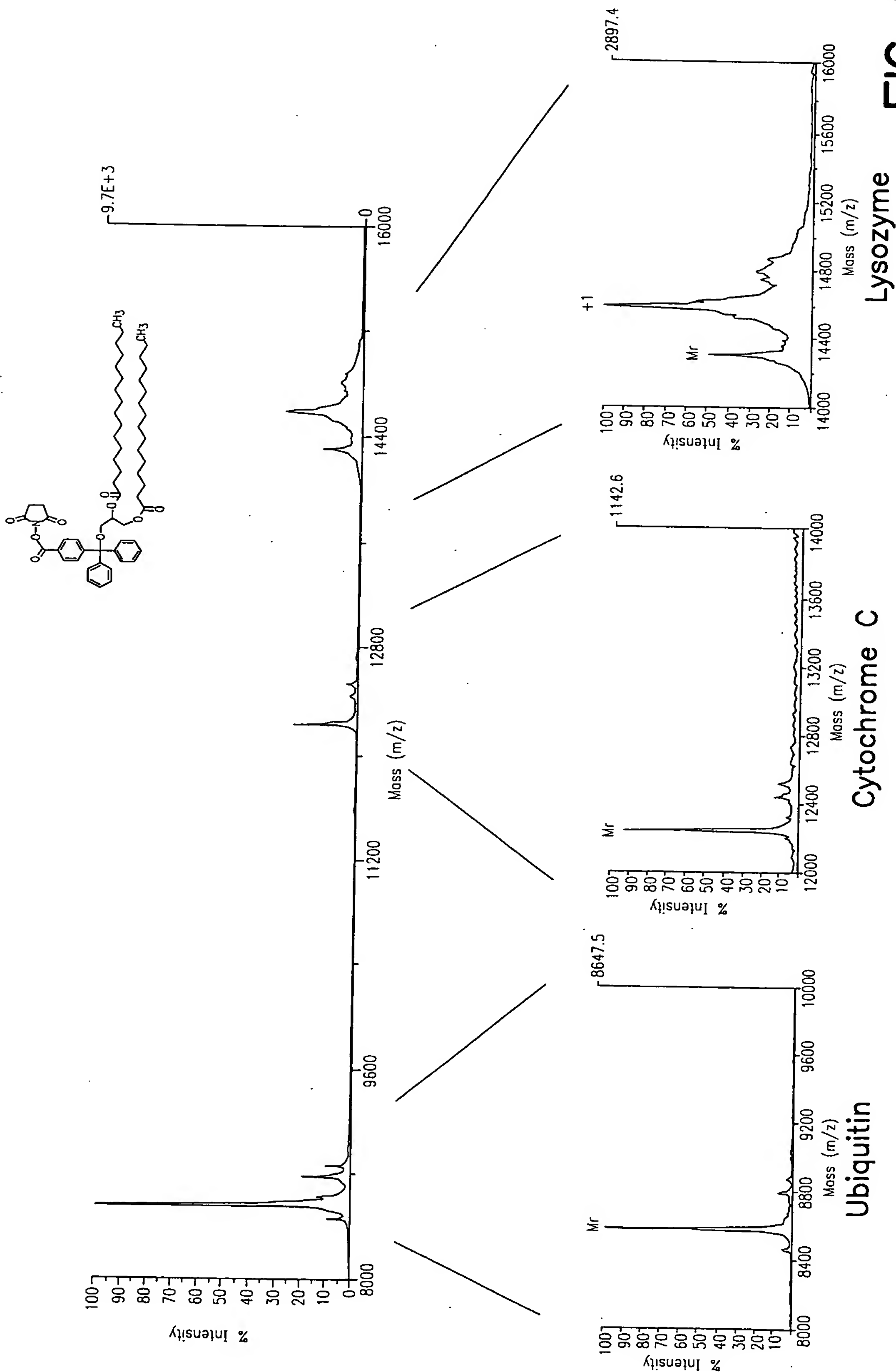
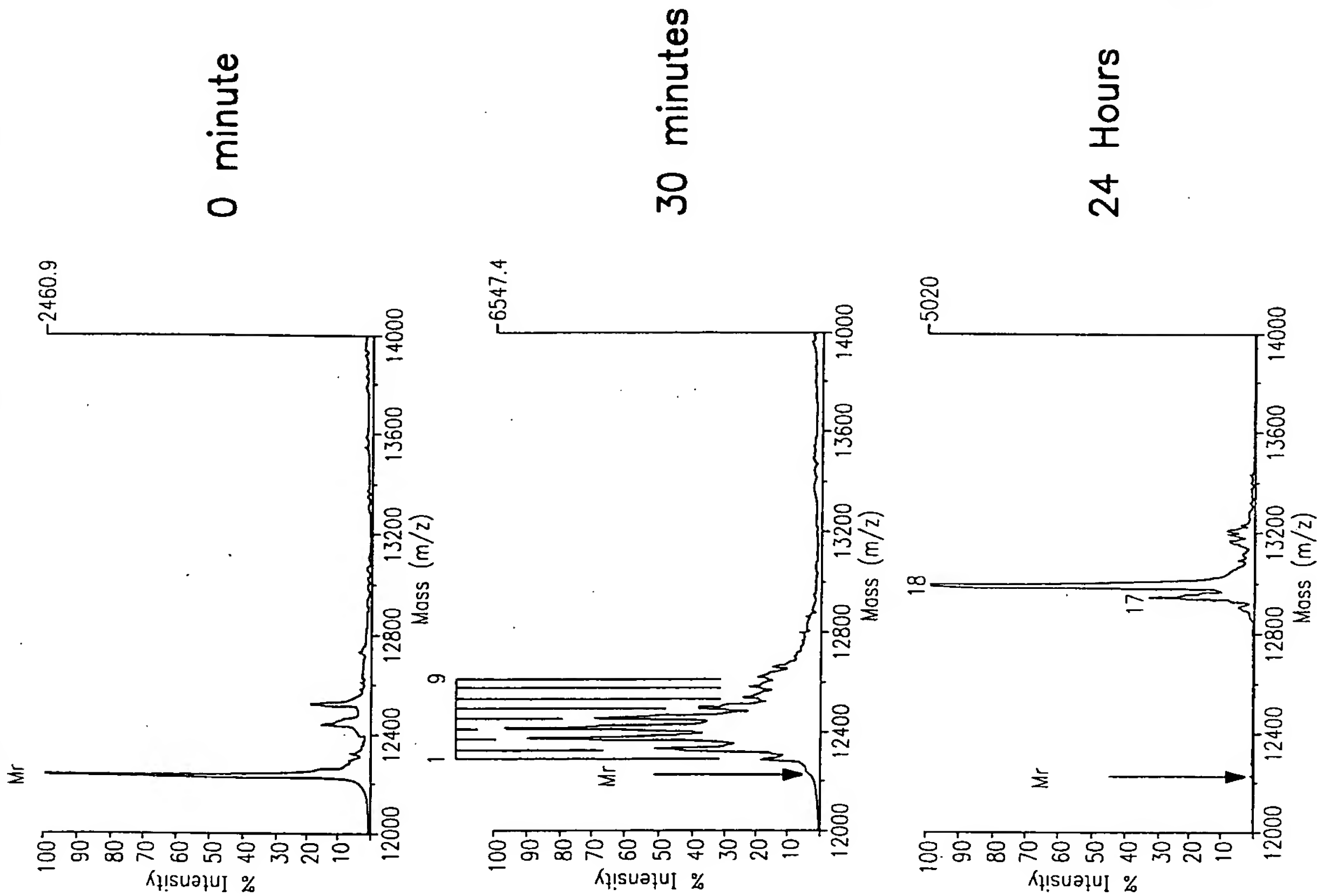
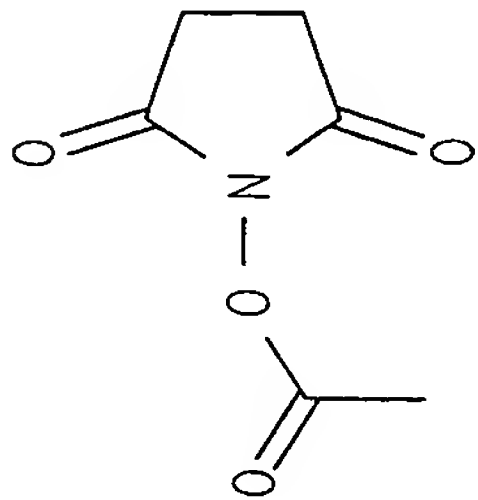
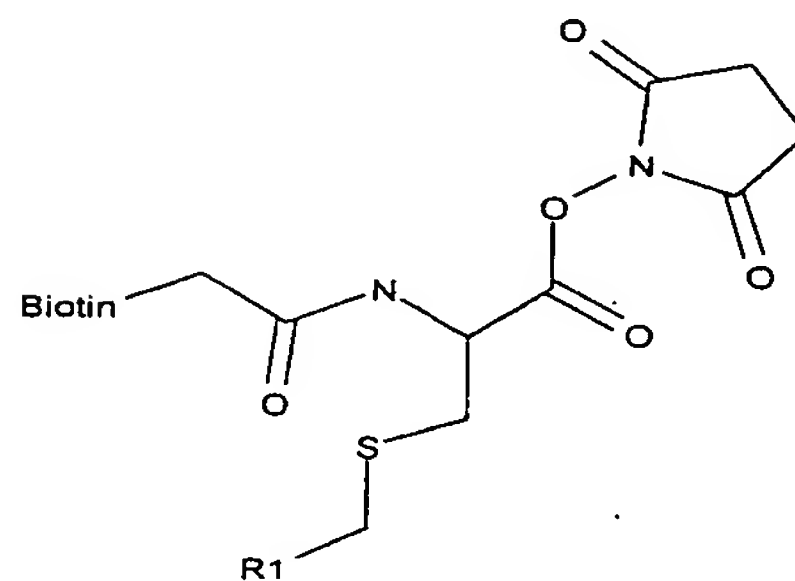


FIG. 20e

Cytochrome C (18 Lys) Reaction with Non-Specific Compound





R1 (Selectivity Function)

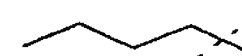
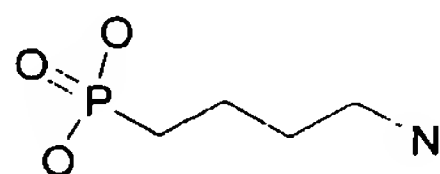
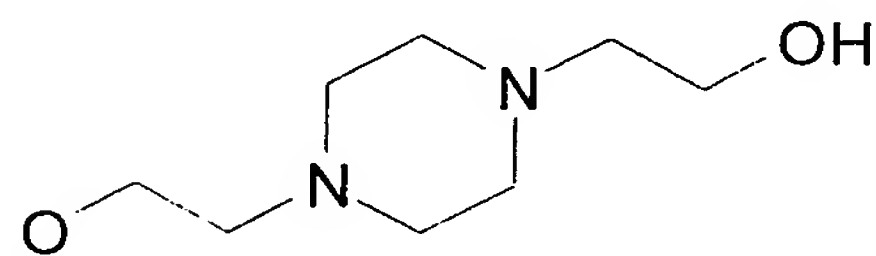
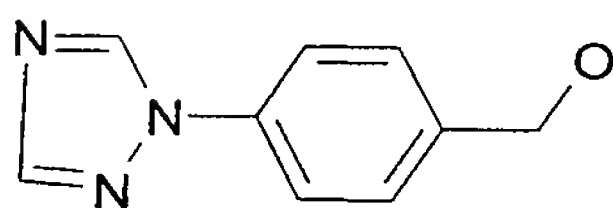
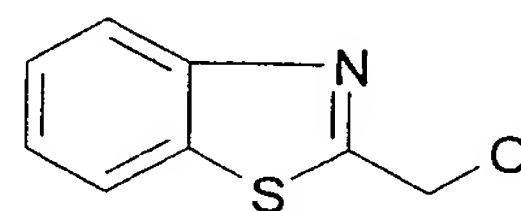
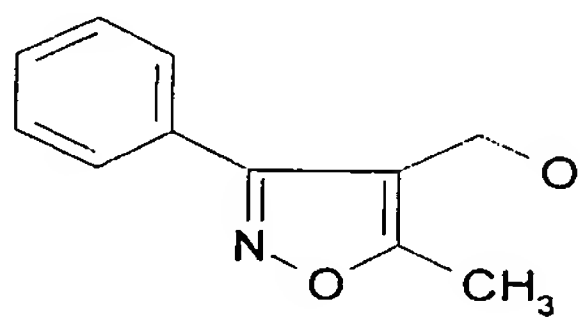
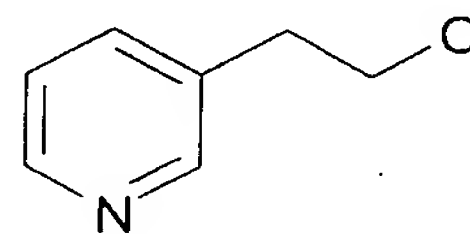
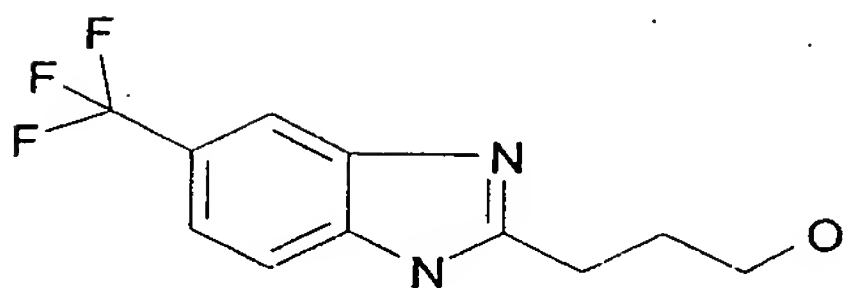
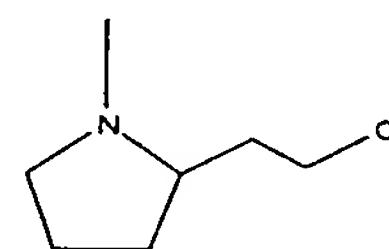
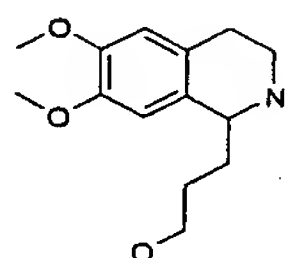
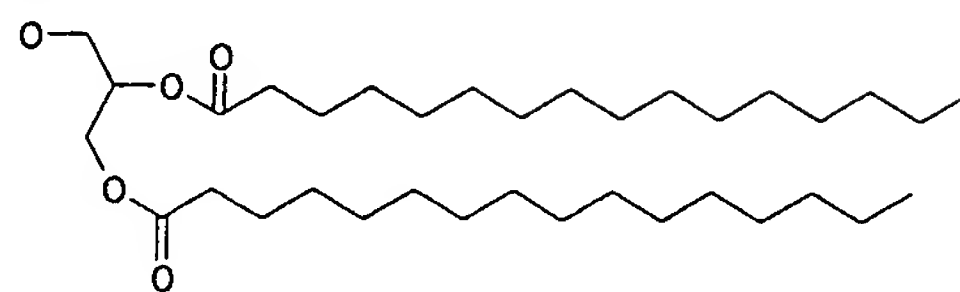
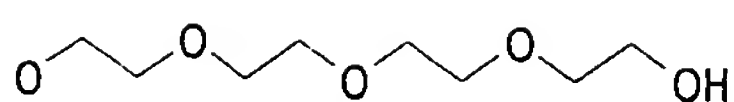


FIG. 21A

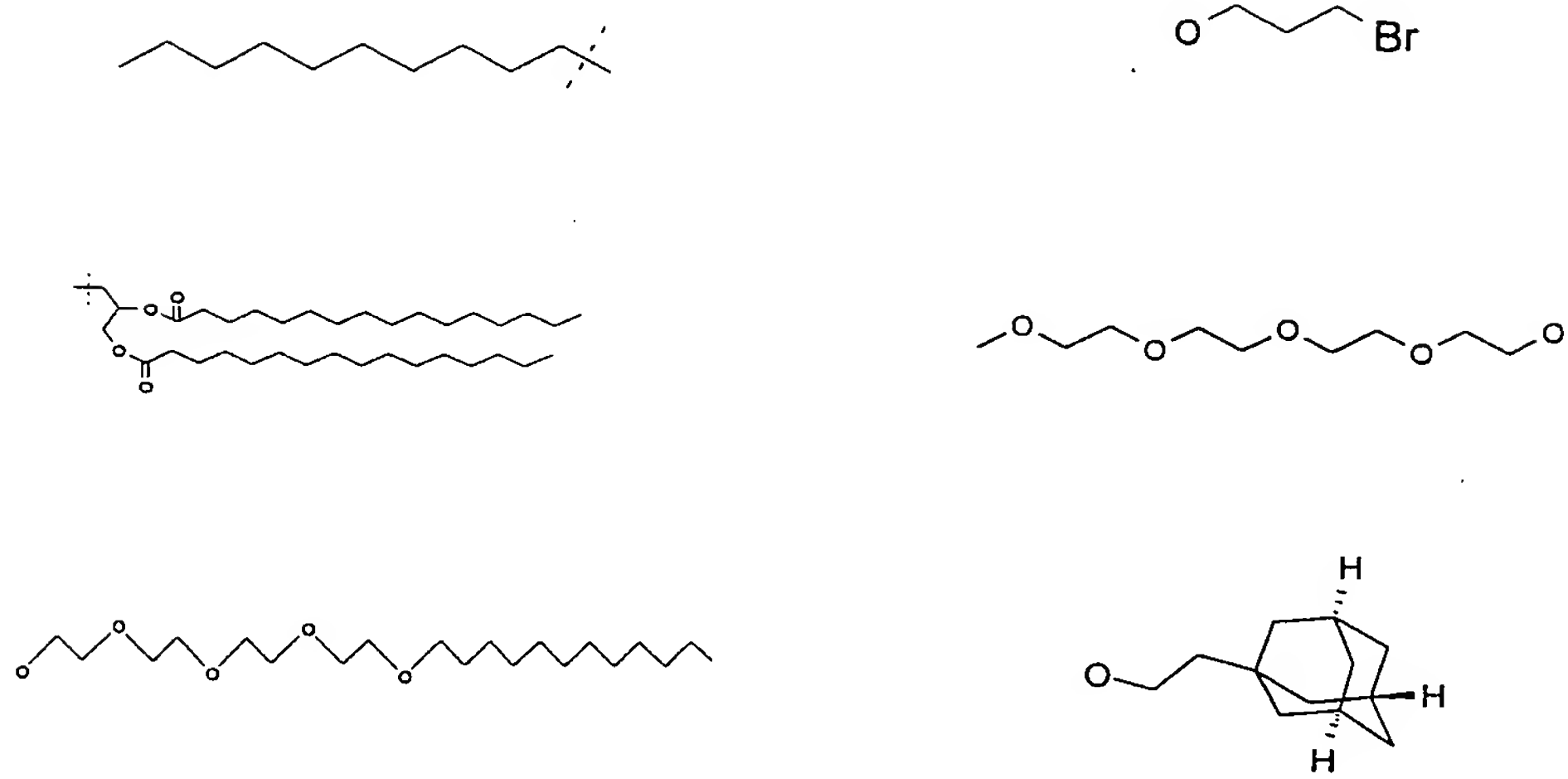


FIG. 21B

Hemoglobin

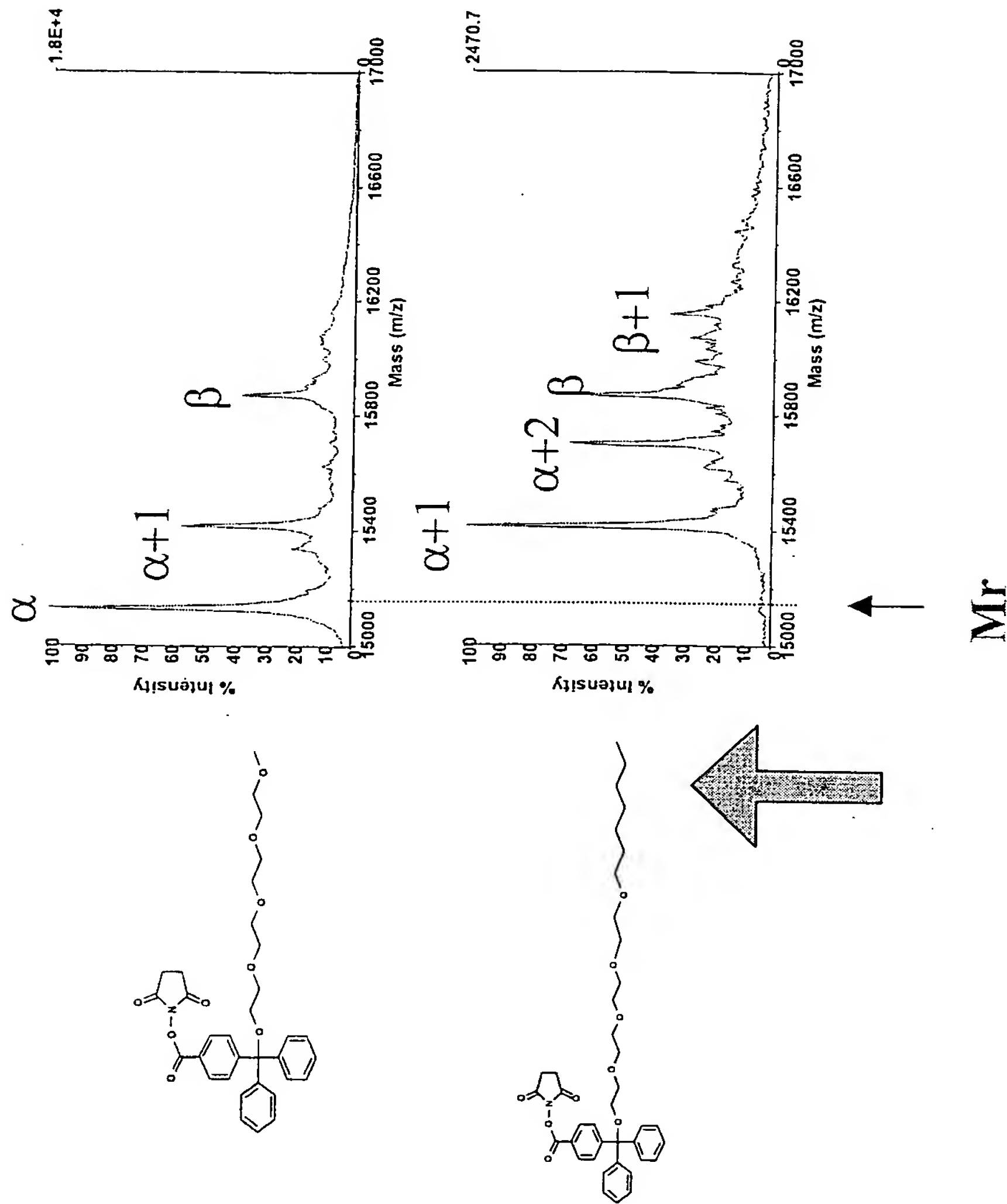


FIG. 22

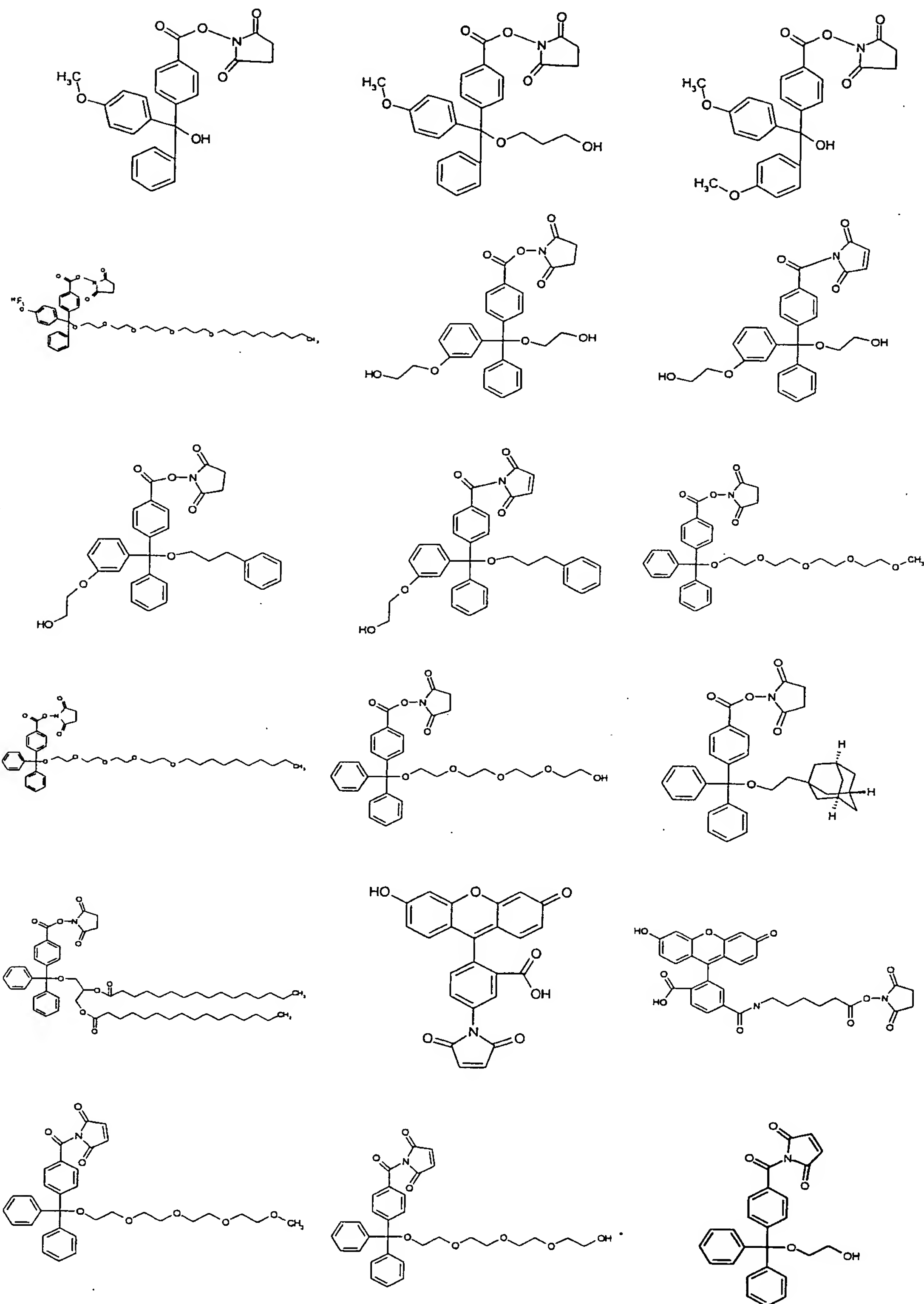


FIG. 23A

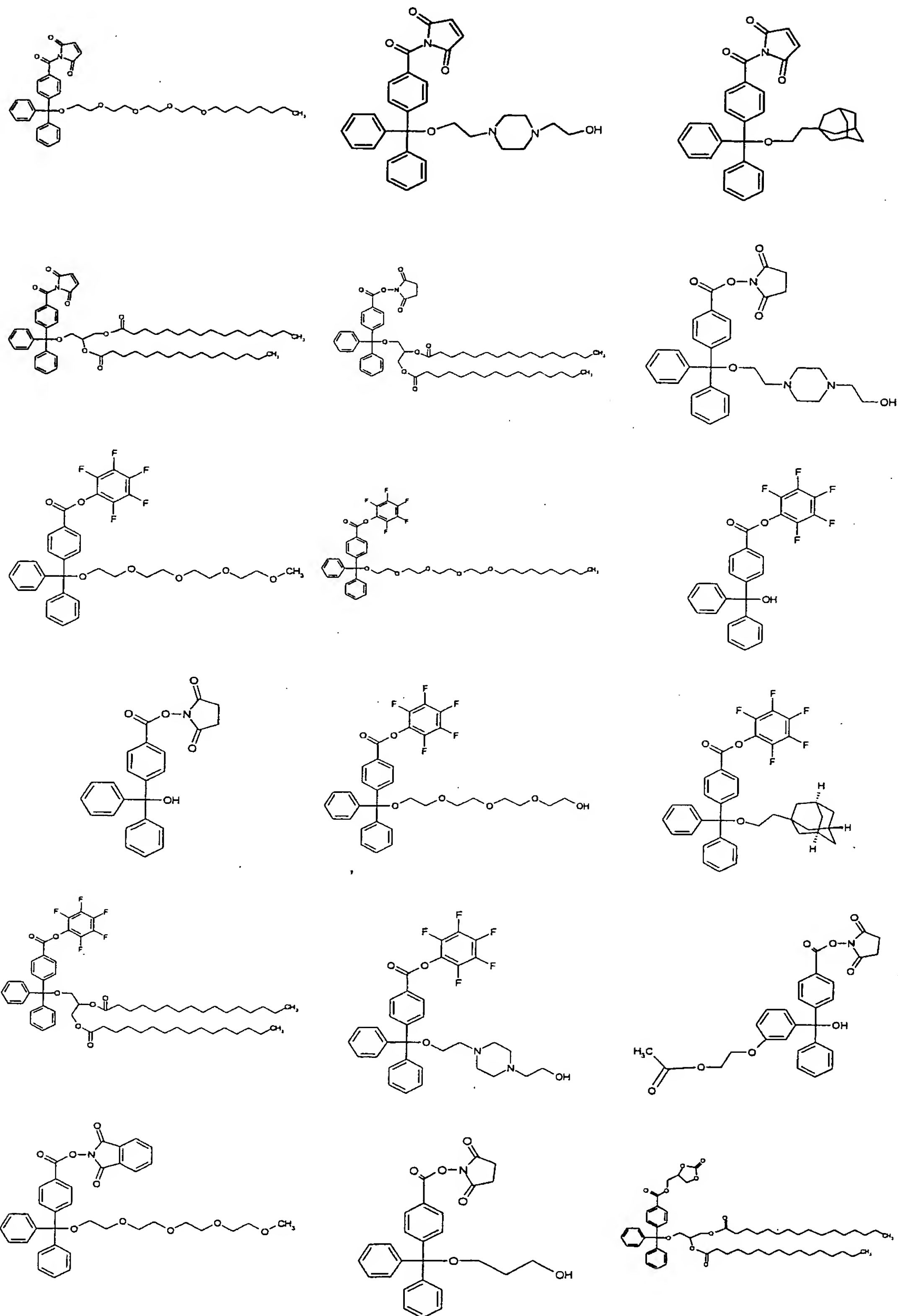


FIG. 23B

Applicants: Köster *et al.* Customer No.: 24961
Serial No.: Herewith Filed: January 16, 2004
Our Docket No.: 24743-2309



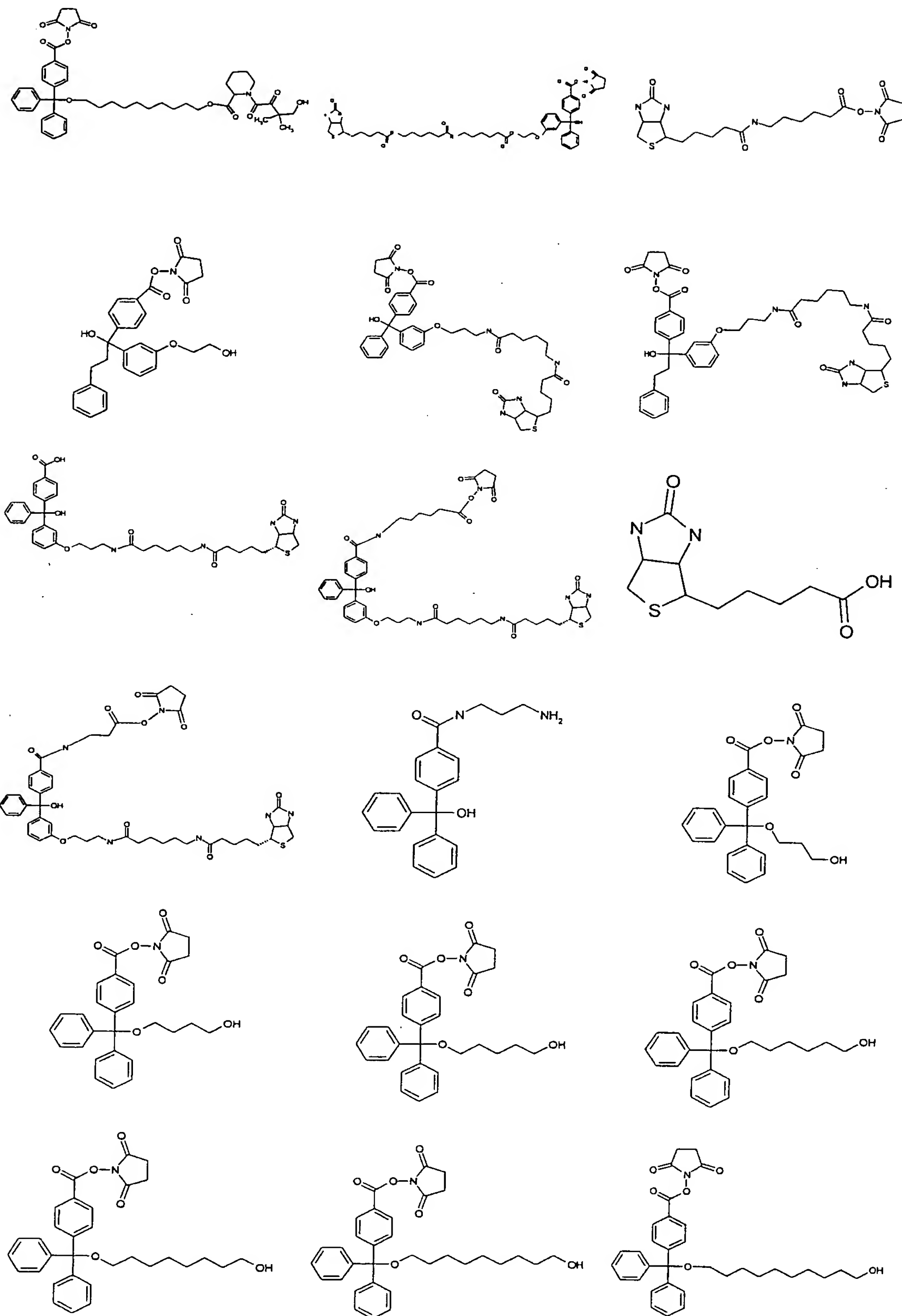


FIG. 23D

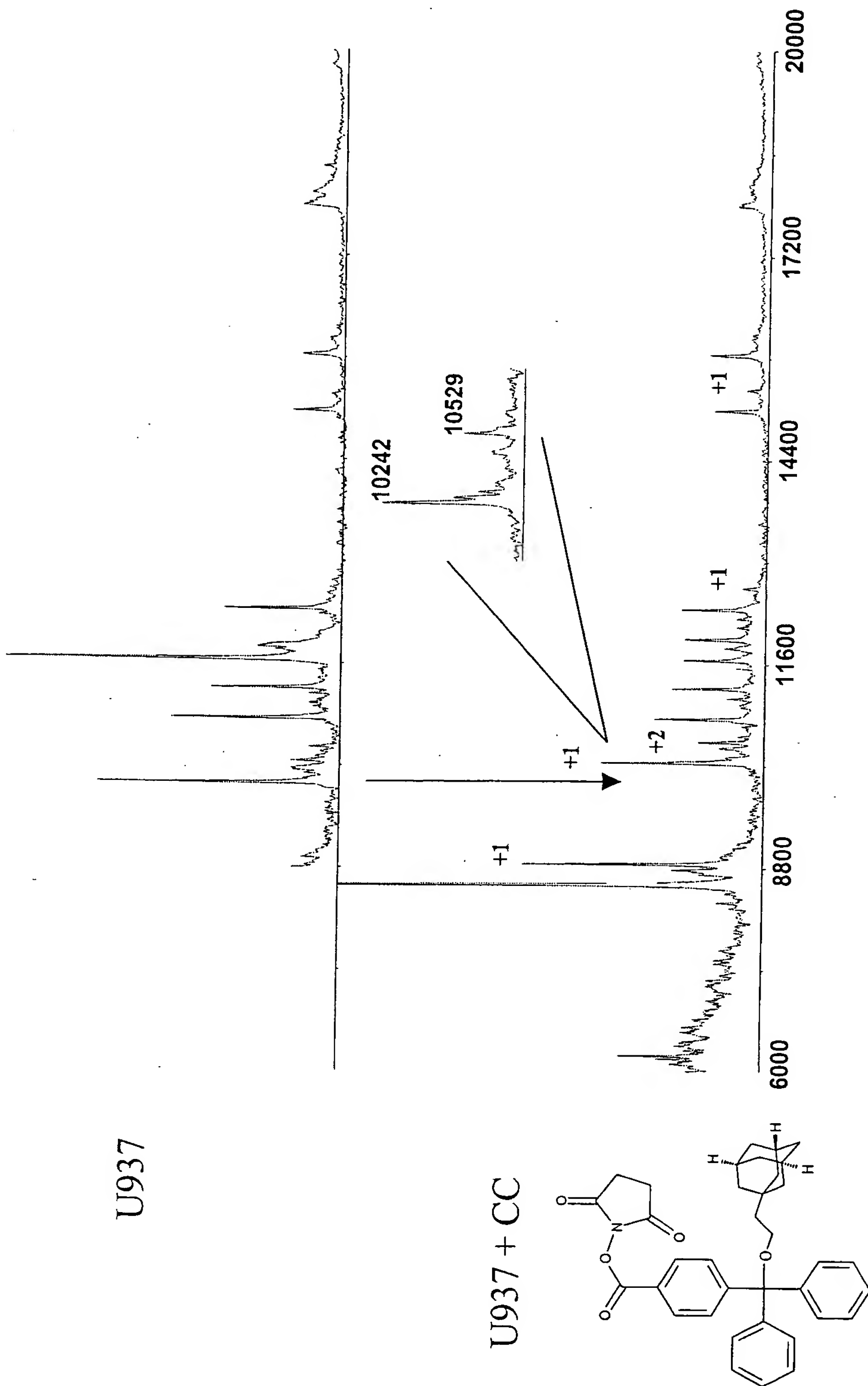


FIG. 24

Burkitt's Captured Proteins

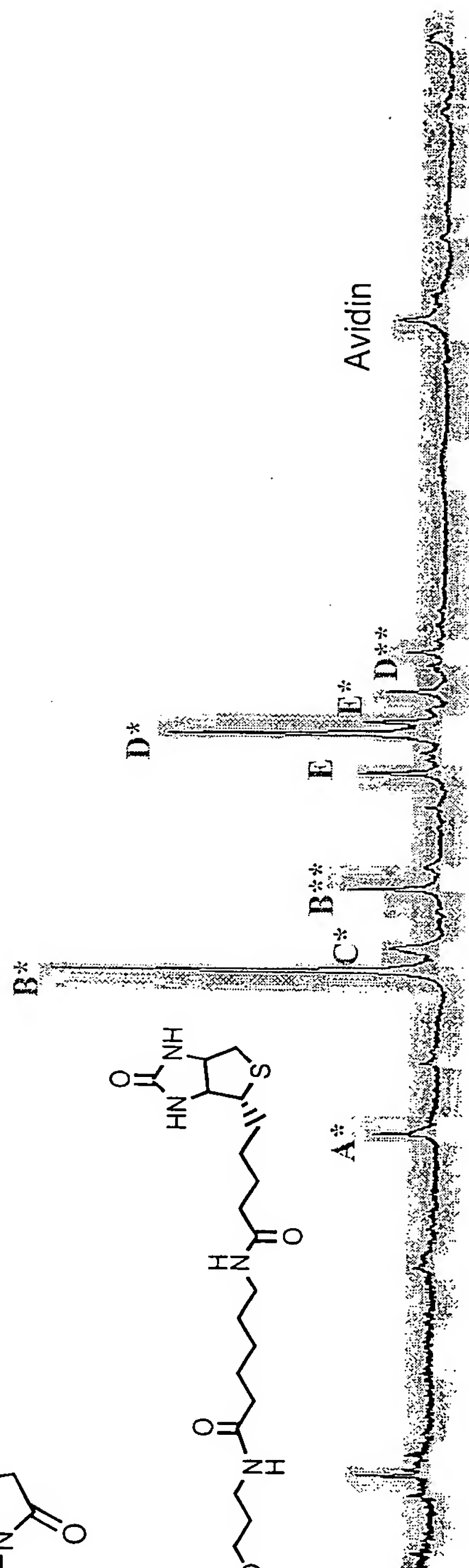
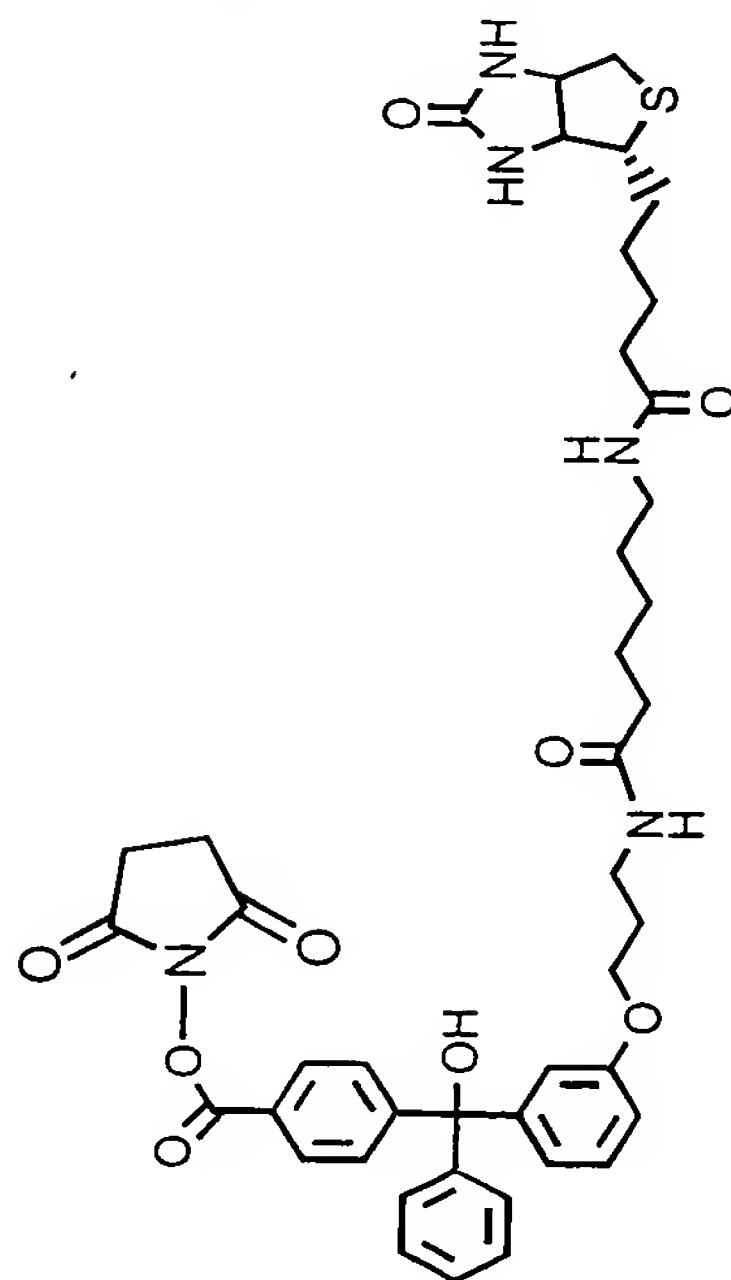
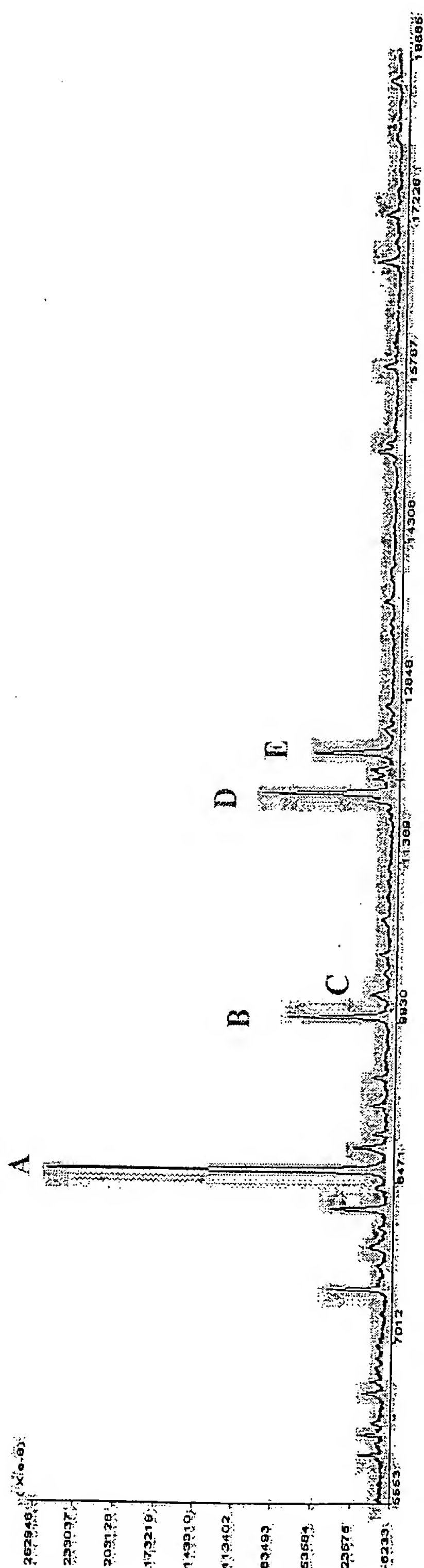
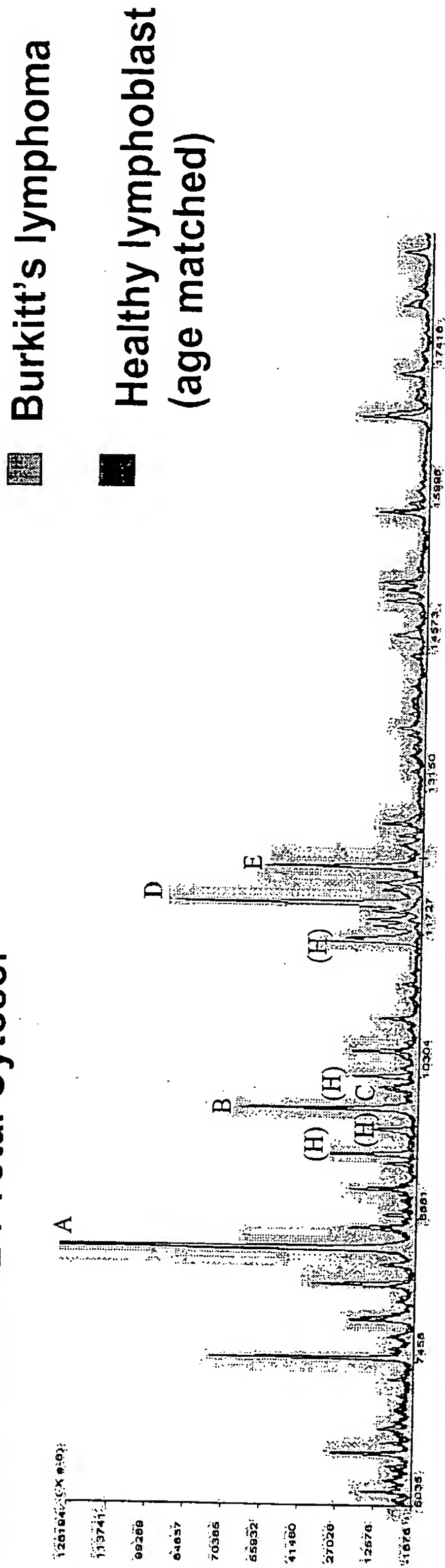


FIG. 25

Ramos vs. WIL-2 : Total Cytosol



Ramos vs. WIL-2: Capture

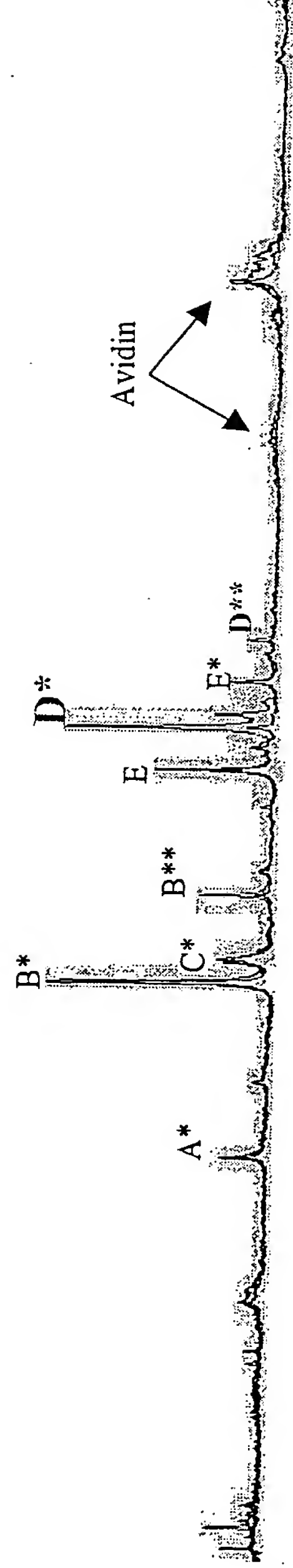
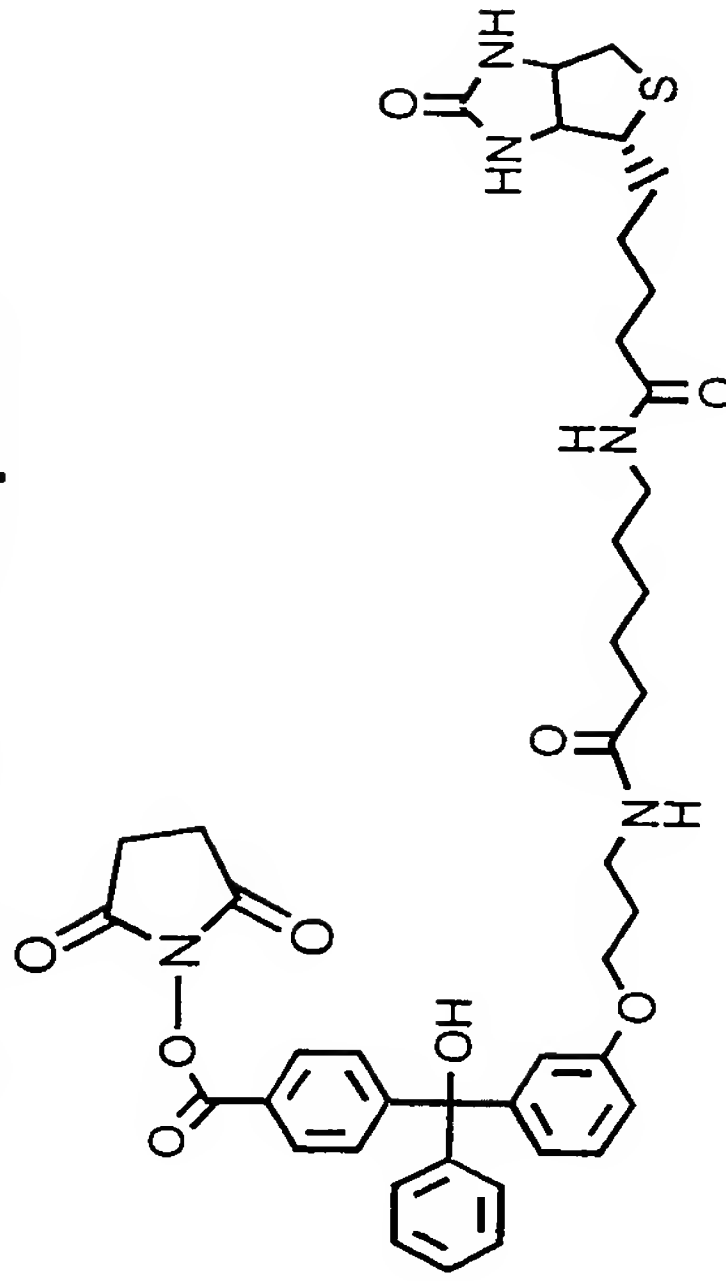


FIG. 26

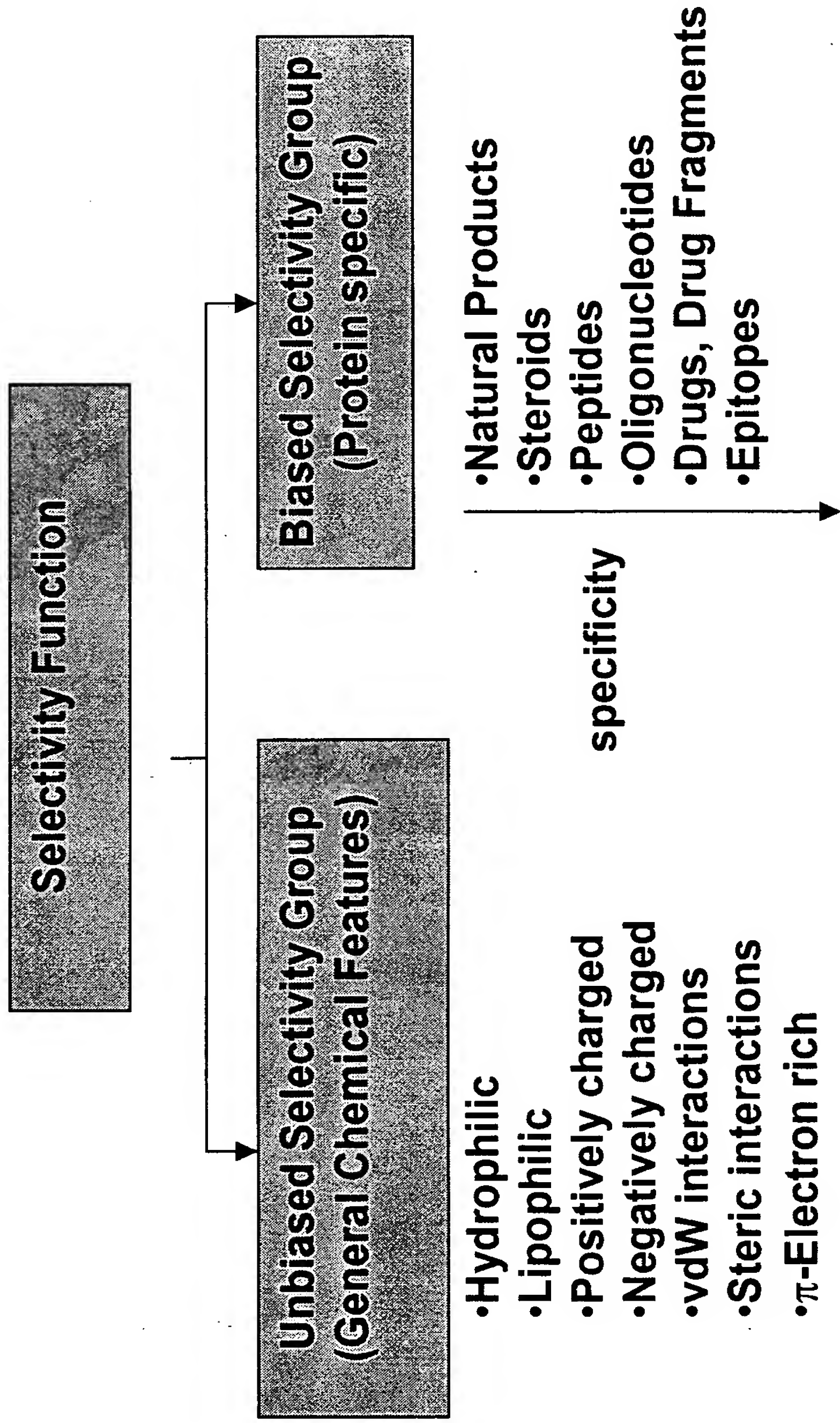
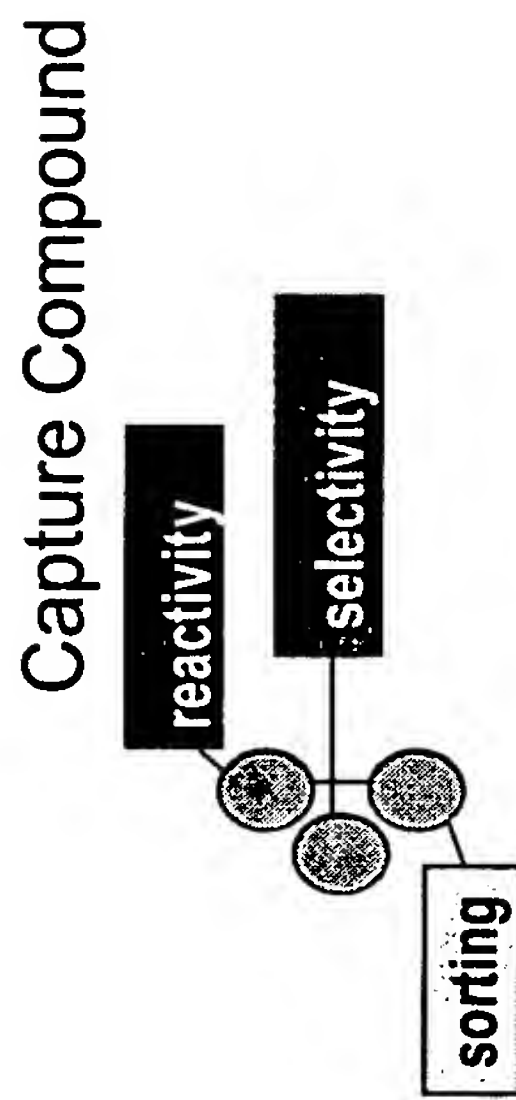


FIG. 27



Specific CC

- Drug

Unbiased CC library

- Empirical open platform
- (New Target Discovery)

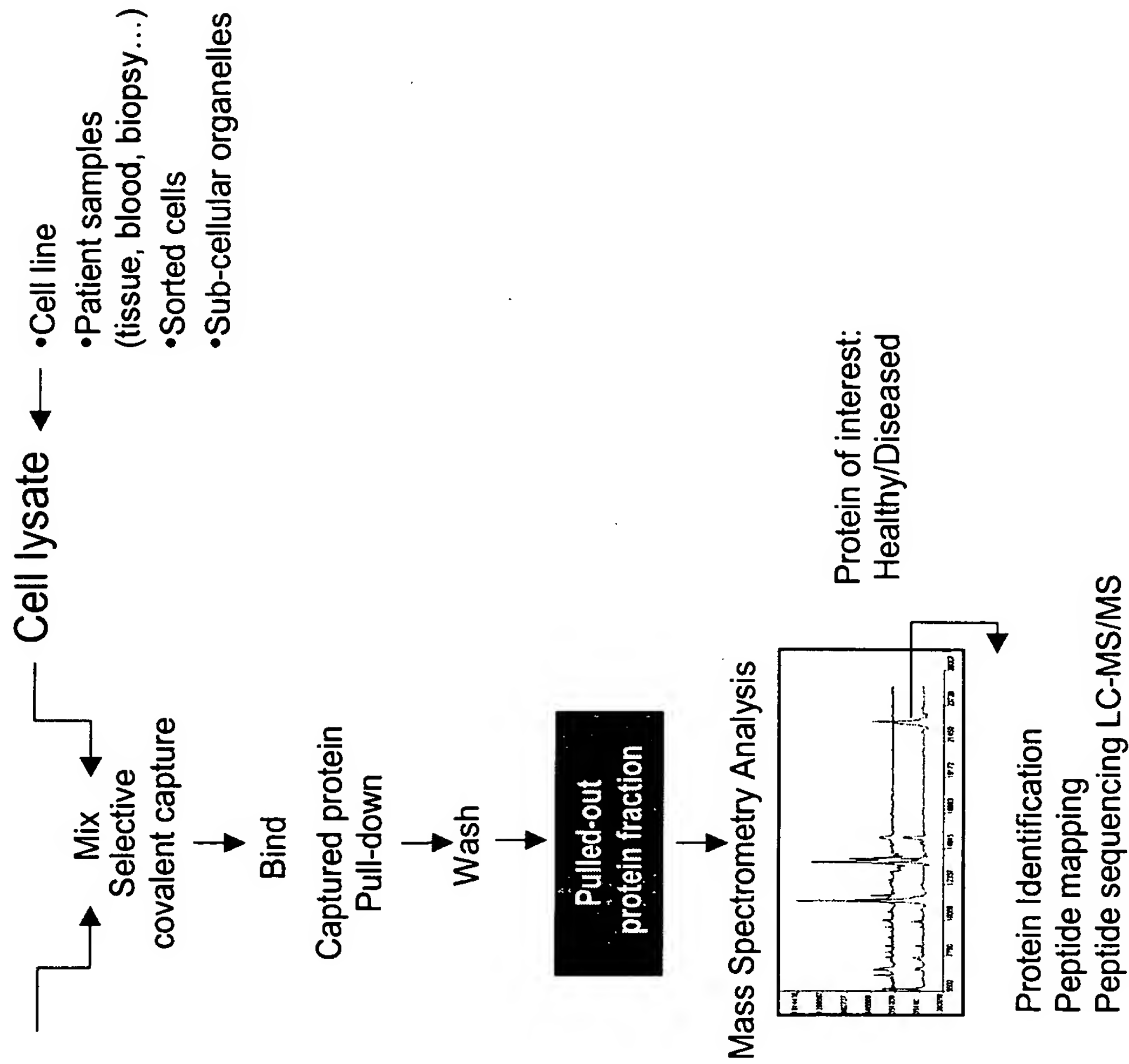


FIG. 28

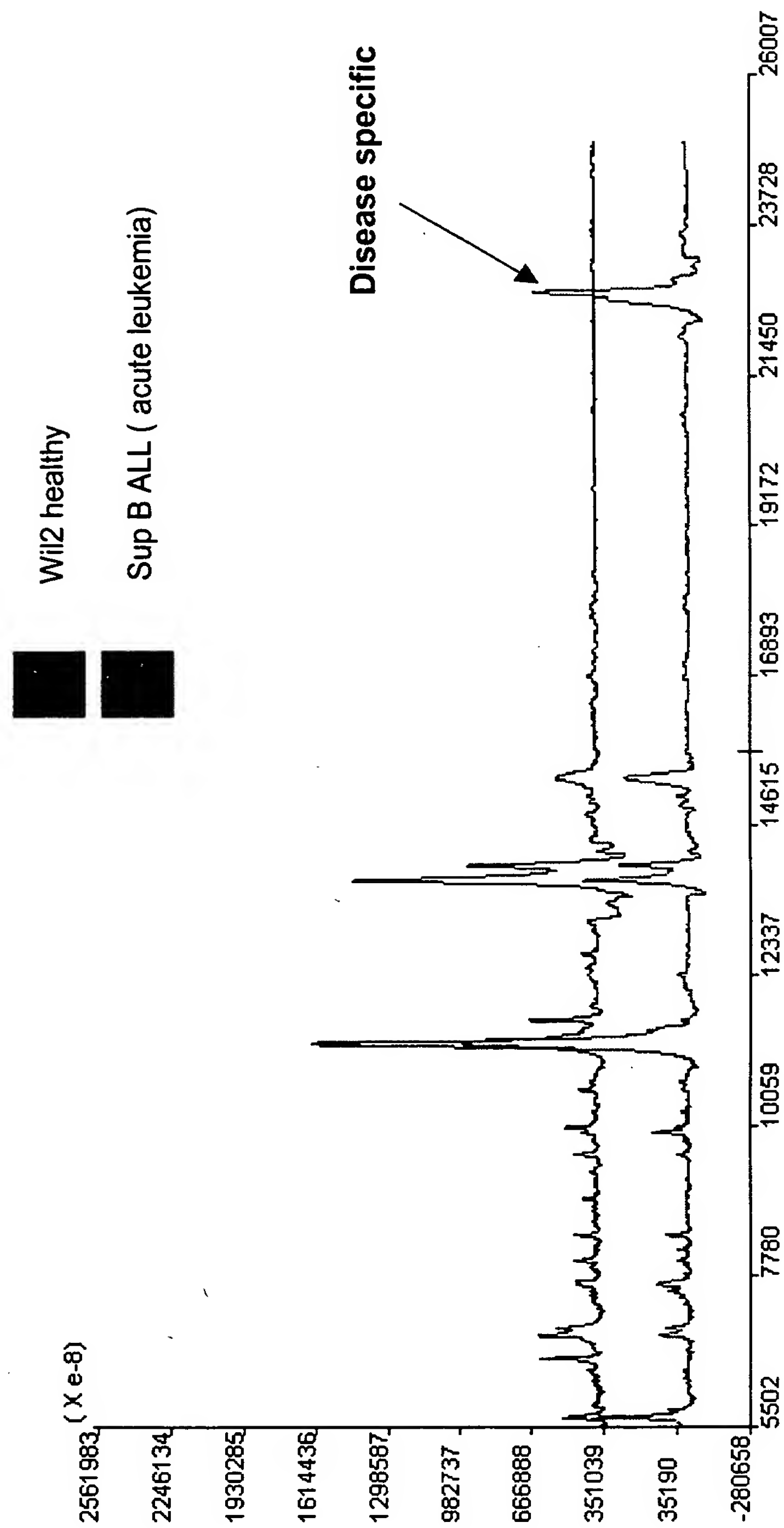


FIG. 29

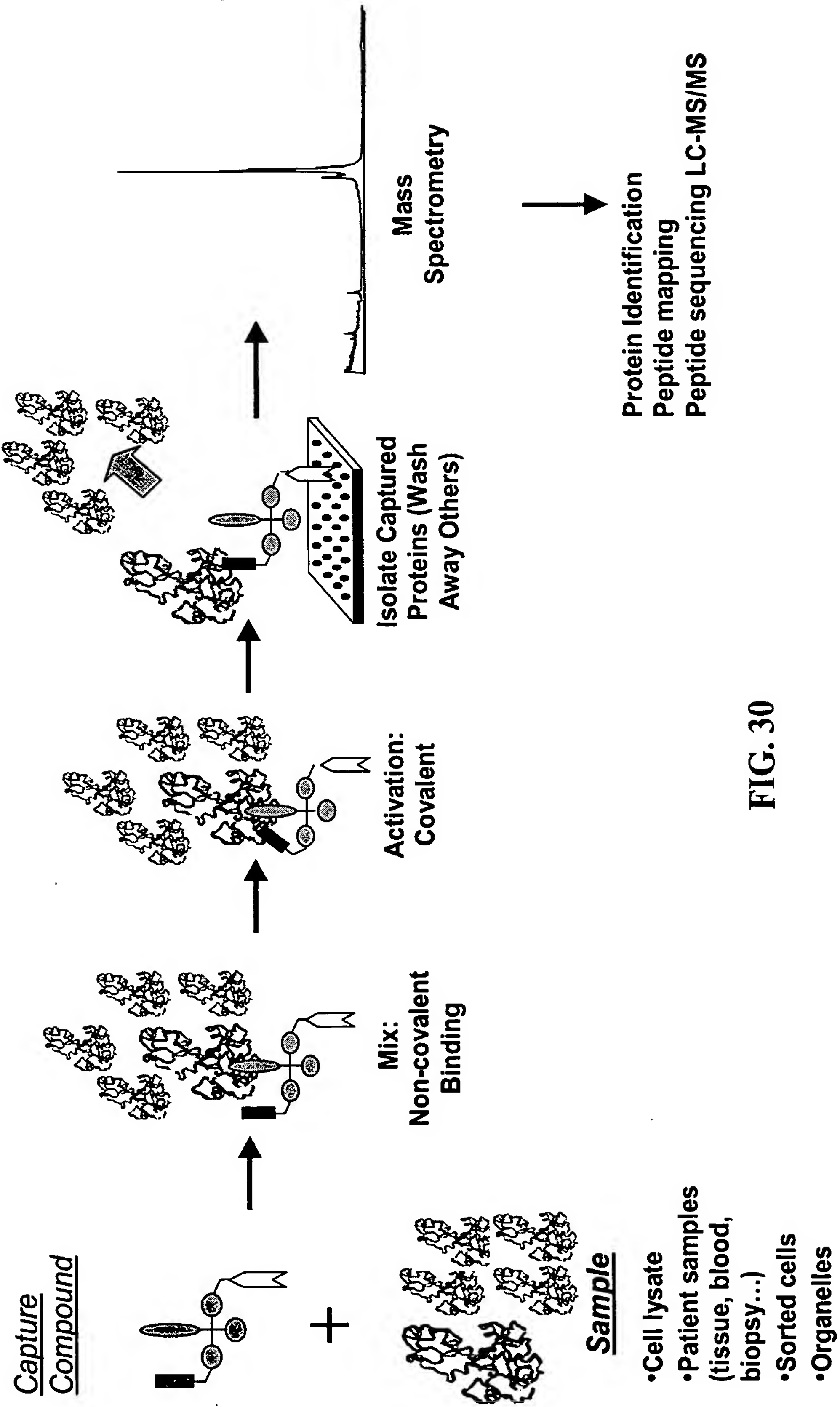


FIG. 30

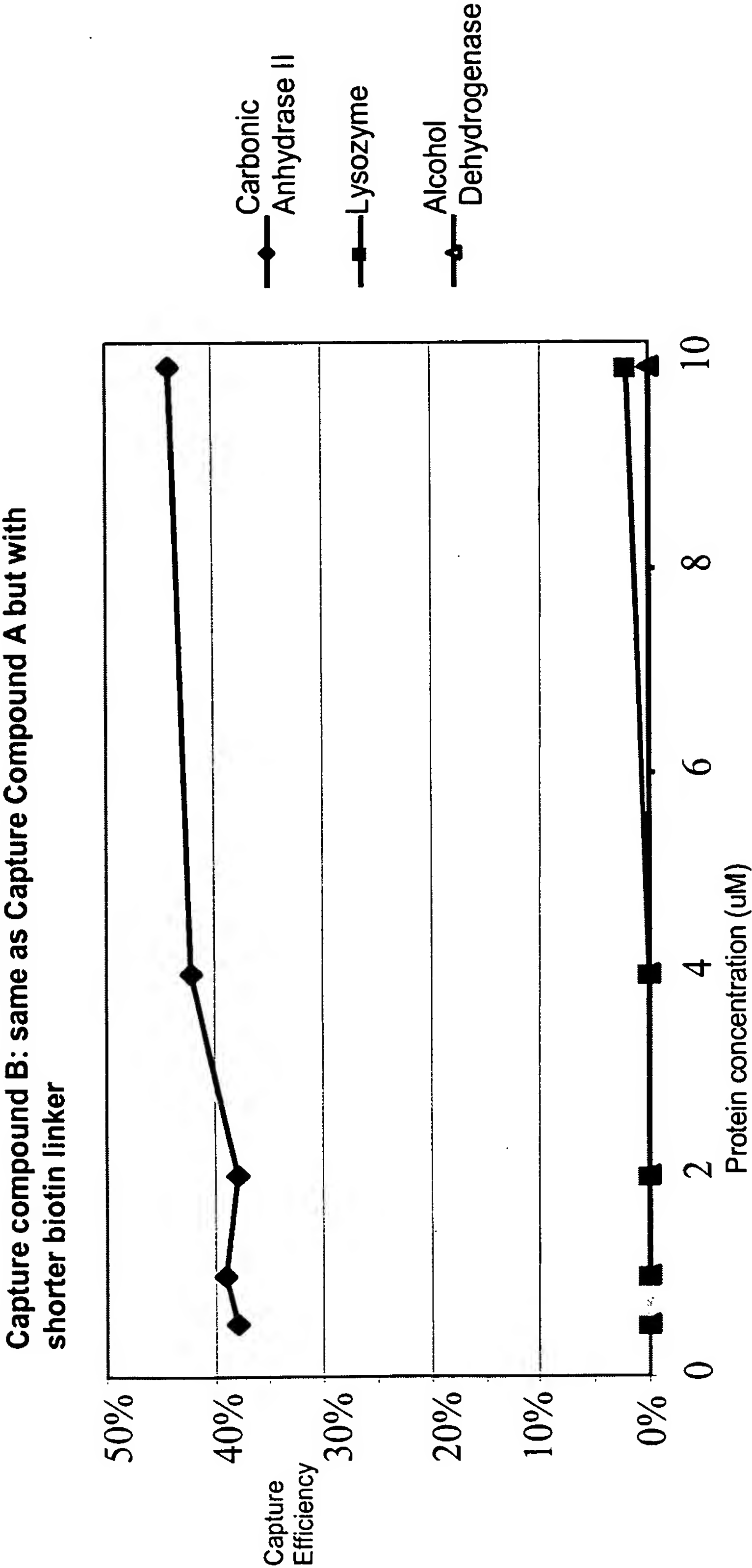


FIG. 31

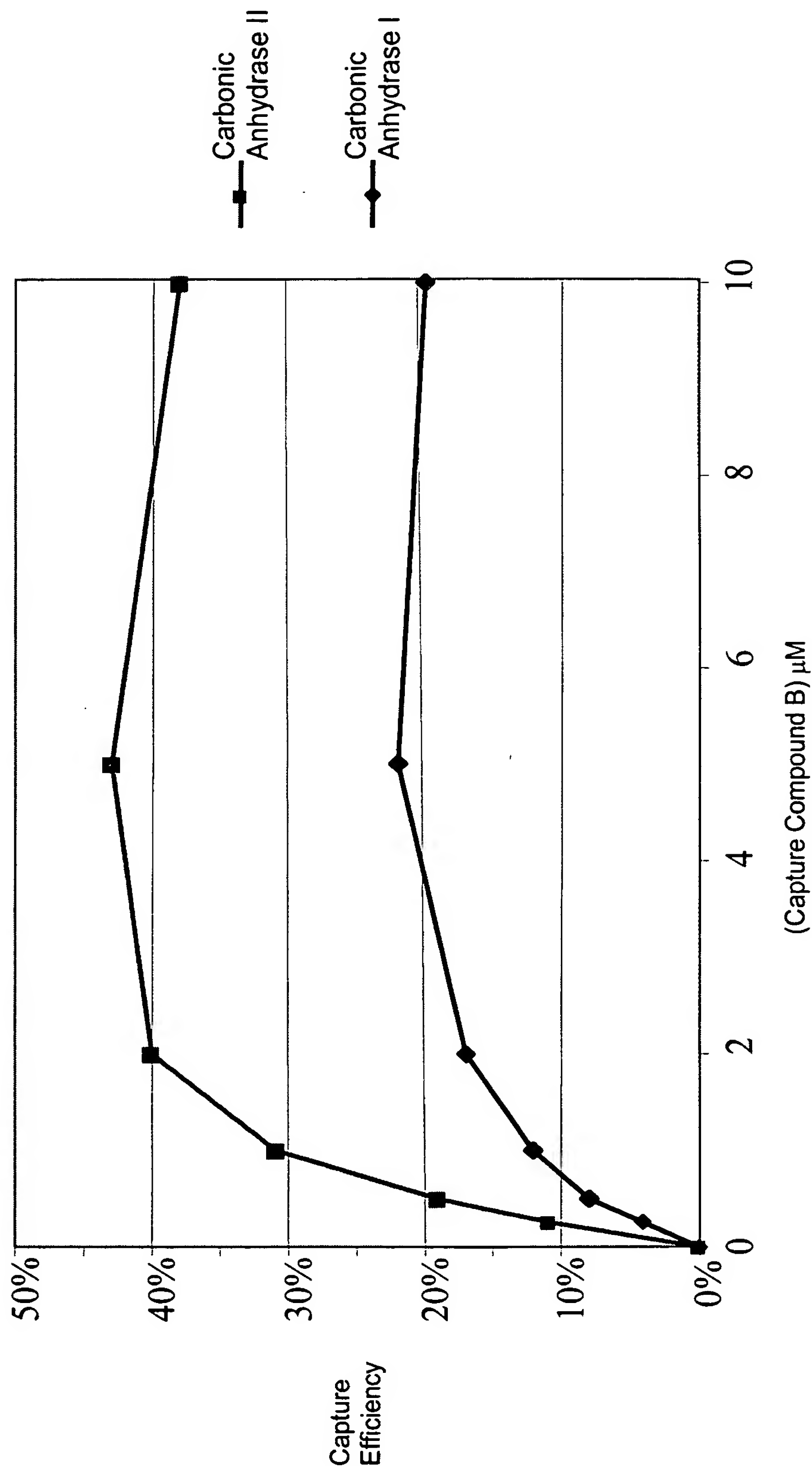


FIG. 32

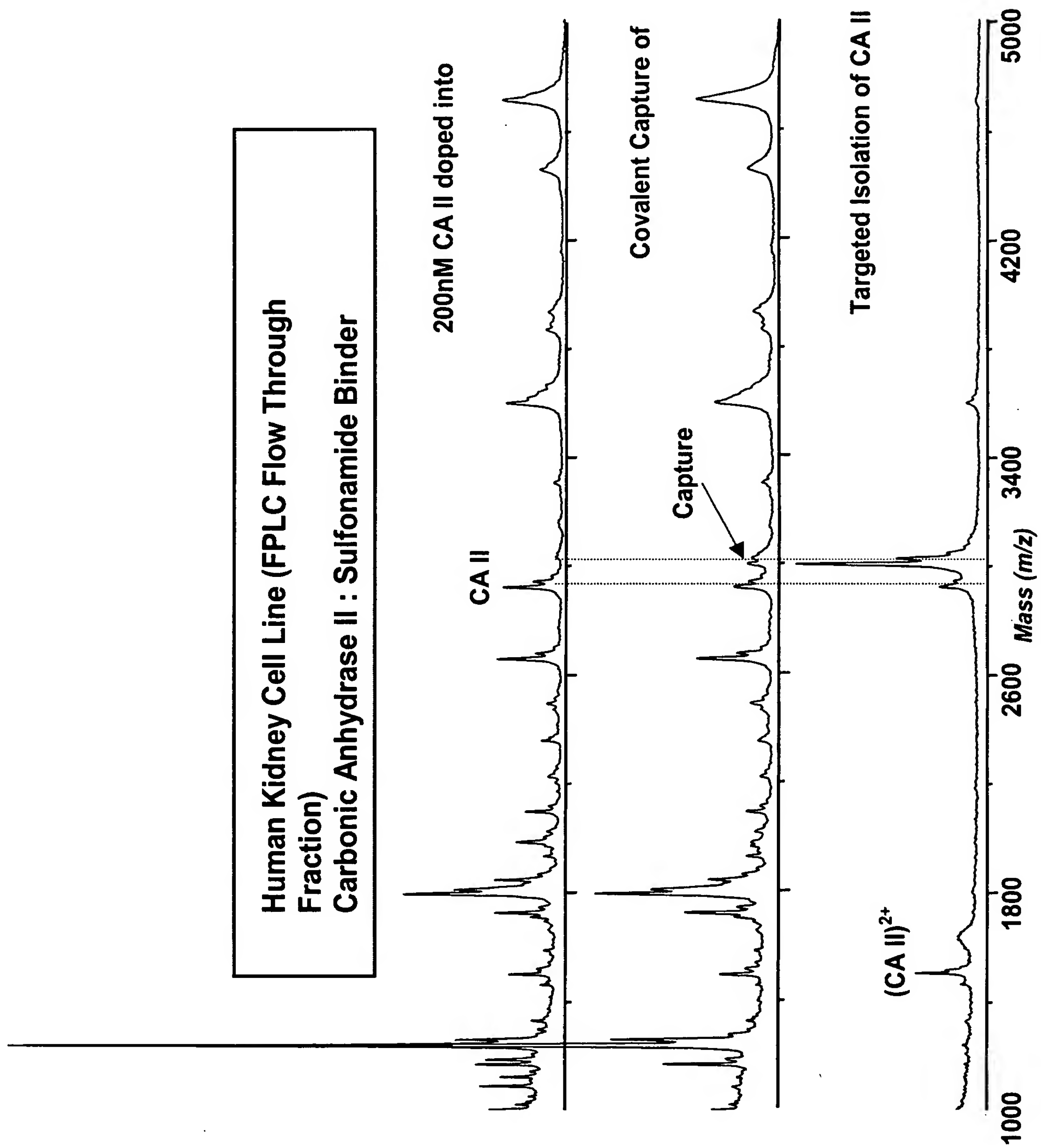


FIG. 33

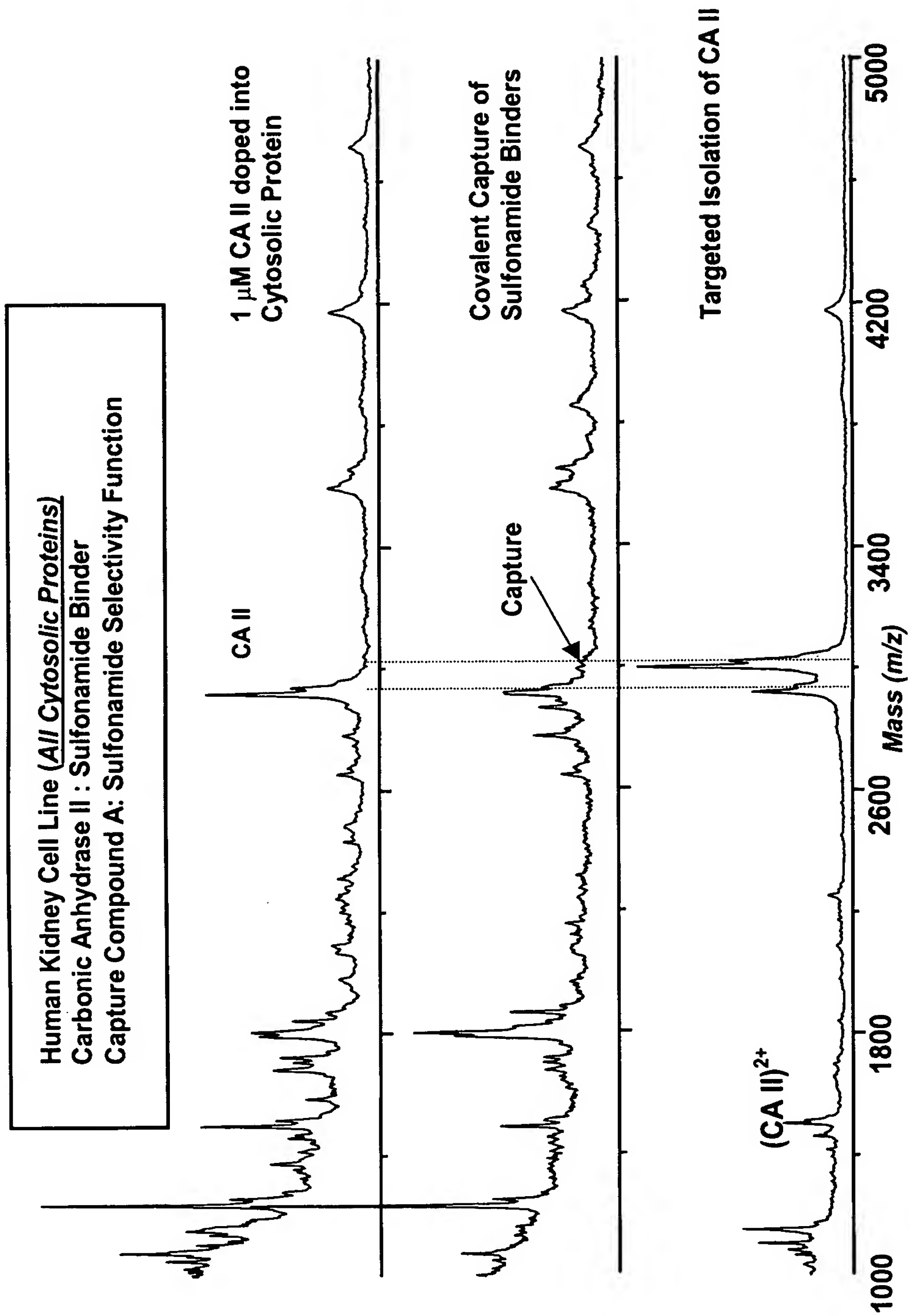


FIG. 34

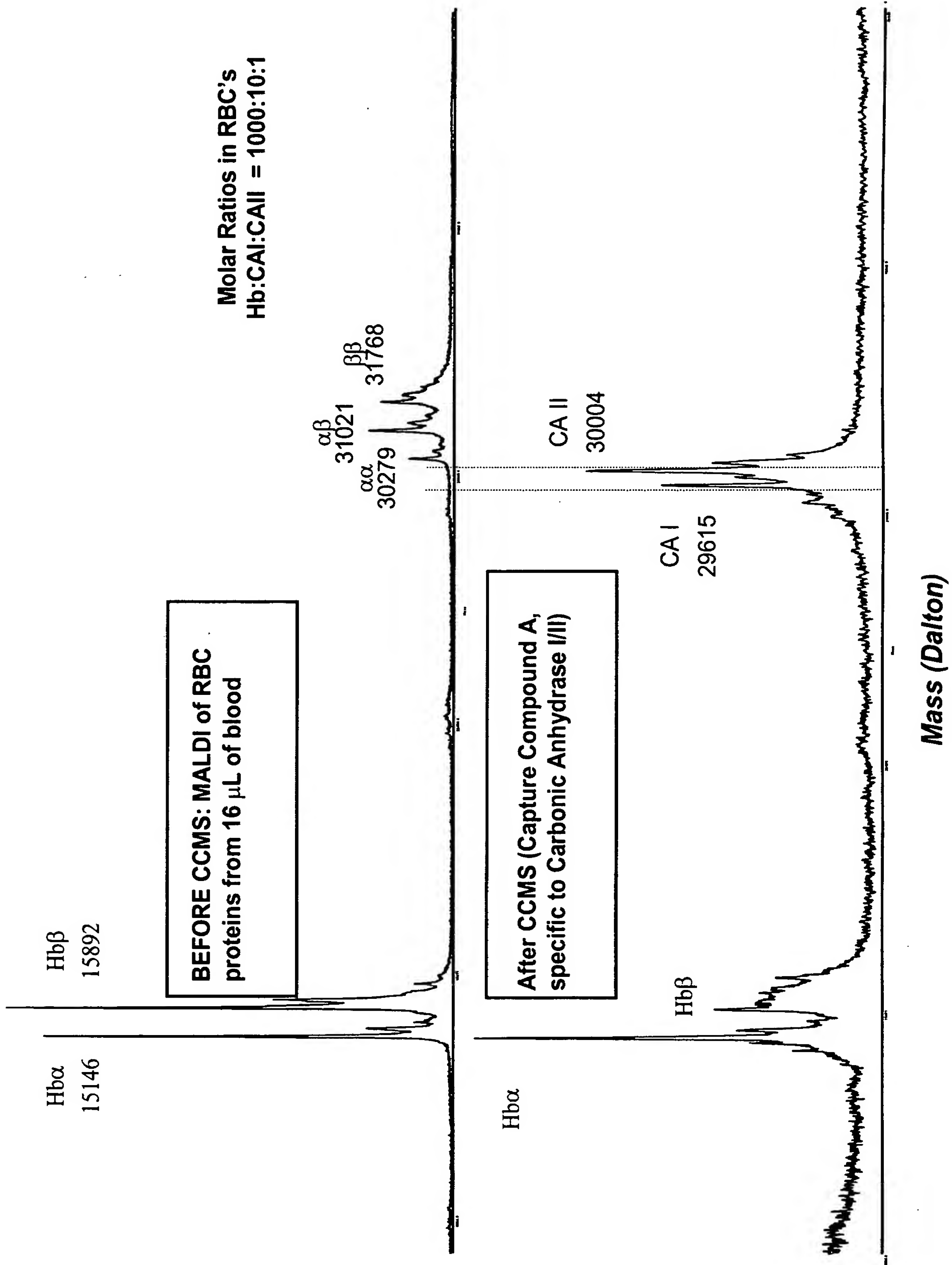


FIG. 35

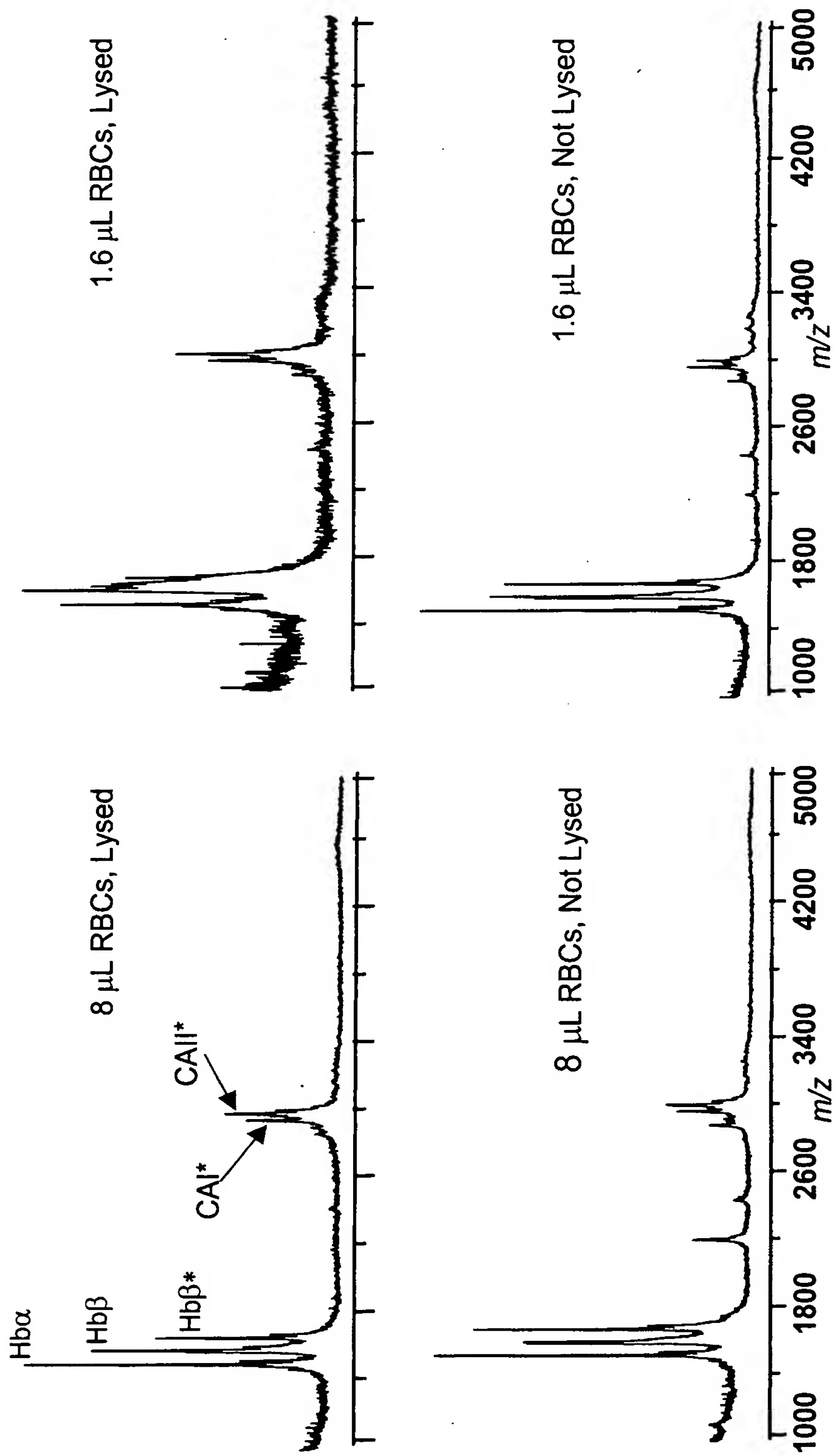


FIG. 36

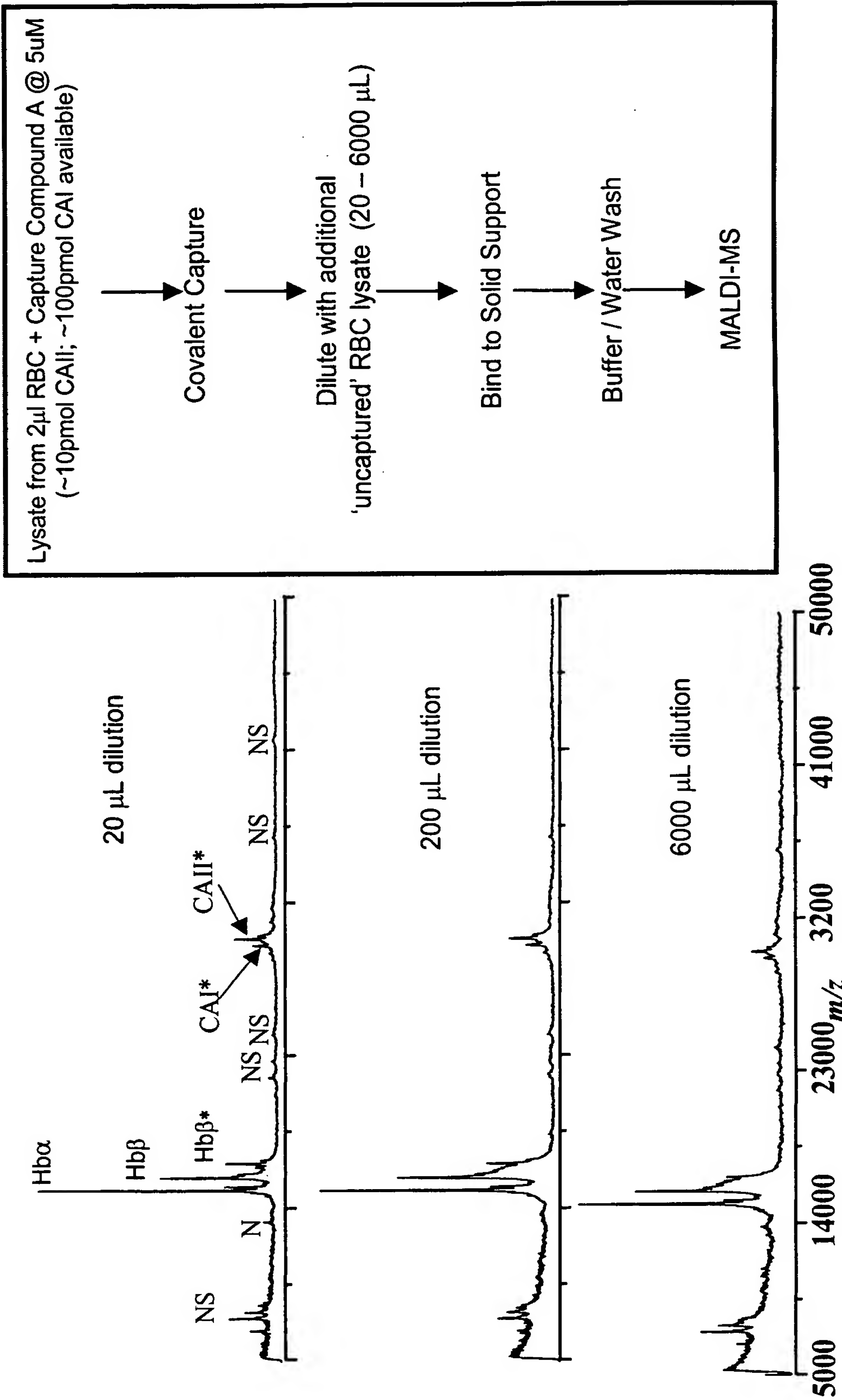


FIG. 37

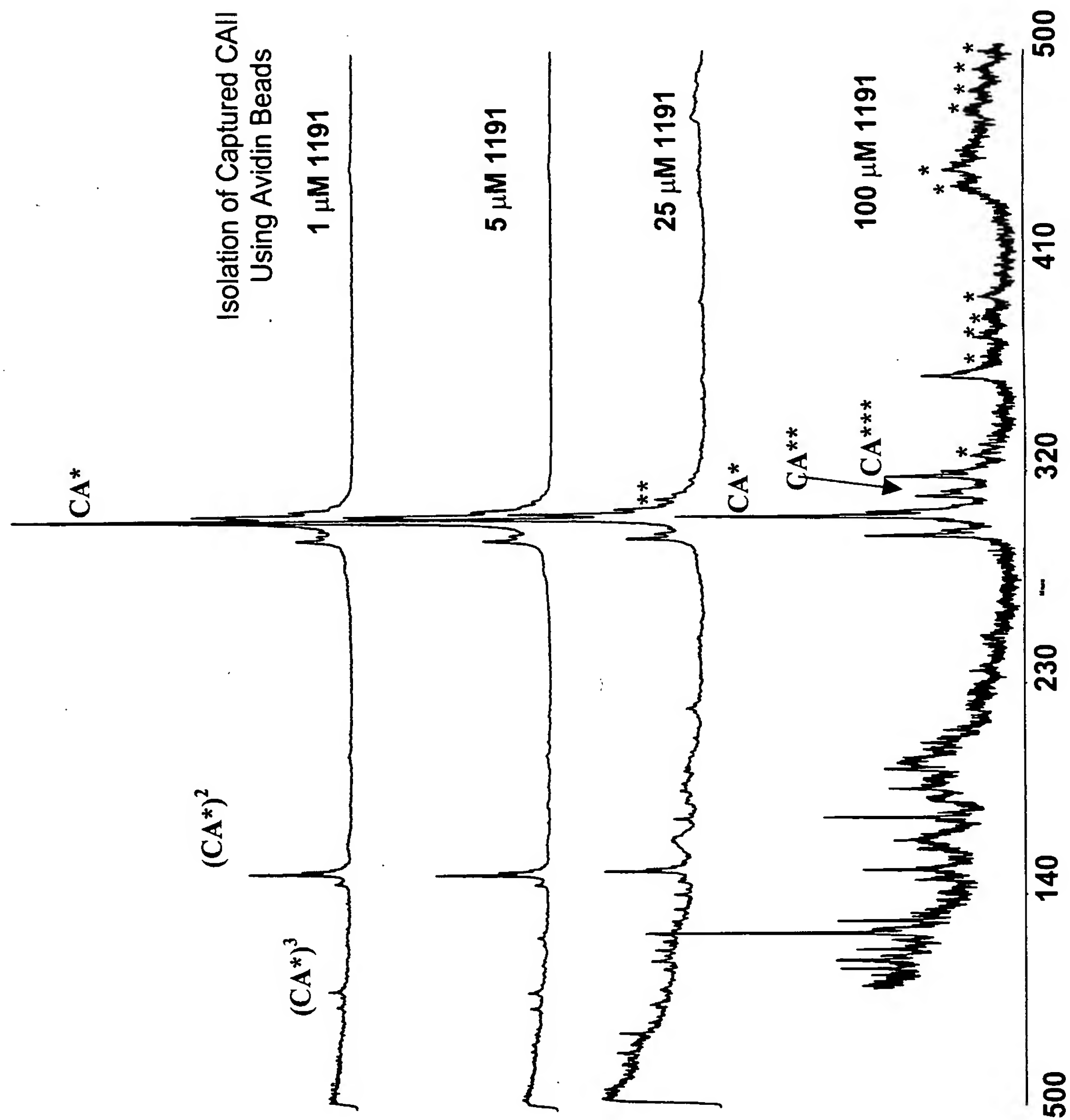


FIG. 38